LED 12-19 Inch TFT
On-Camera Prompters

Part Nos. LED12TFT-ME
LED12TFT-ME-SDI
LED15TFT-ME
LED15TFT-ME-SDI
LED17TFT-ME
LED17TFT-ME-SDI
LED19TFT-ME
LED19TFT-ME-SDI

www.autoscript.tv
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Important information on the safe installation and operation of this product. Read this information before operating the product. For your personal safety, read these instructions. Do not operate the product if you do not understand how to use it safely. Save these instructions for future reference.

Warning Symbols Used in these Instructions
Safety cautions are included in these instructions. These safety instructions must be followed to avoid possible personal injury and avoid possible damage to the product.

**WARNING!** Where there is a risk of personal injury or injury to others, comments appear supported by the warning triangle symbol. Where there is a risk of damage to the product, associated equipment, process or surroundings, comments appear supported by the word 'Caution'.

**ELECTRIC SHOCK** Where there is a risk of electric shock, comments appear supported by the hazardous voltage warning triangle.

Intended Use
The LED 12-19 Inch TFT Range of high brightness on-camera prompters have been designed to provide a high quality teleprompting facility for television broadcasting. The prompters are intended for use by television camera operators within a TV studio environment or on outside broadcasts (OB) when protected from weather by a suitable waterproof cover.

Health and Safety

**WARNING! Risk of personal injury or injury to others.** All personnel must be fully trained and adhere to correct manual handling techniques and Healthy & Safety regulations. It is the responsibility of the local organisation to enforce safe working practices at all times.

**WARNING! Risk of personal injury or injury to others.** Care must be taken when handling and installing the reflective glass panels. Always store spare glass panels in the original packaging.

Electrical Connection

**WARNING! Risk of electric shock.** Always check cables for signs of damage. Damaged cables can cause personal injury and/or damage the equipment.

**CAUTION!** This product must be connected to a power supply of the same voltage (V) and current (A) as indicated on the product. Refer to the technical specifications for the product.

**CAUTION!** Only use the power cable specified for this product and certified for the country of use.

**CAUTION!** Using alternative power sources will invalidate the system EMC liability.

**CAUTION!** Always use a fuse of the correct type and rating for the product. Refer to the Technical Specifications for the product.
Basic Electrical Insulation (Class 1 equipment)

**WARNING!** This product is Class 1 equipment. For safe operation this equipment must be connected to a power supply that has a protective earth connection (US: ground).

Mounting and Installation

**WARNING!** Before attempting to install or adjust the prompter assembly, the tilt axis of the head support must be securely locked horizontally.

**WARNING!** Do not install this product onto a camera support or other equipment that is not designed to support the weight of the product and its payload.

**WARNING!** Always ensure that all power and auxiliary communications cables are routed so that they do not present any danger to personnel. Take care when routing cables in areas where robotic equipment is in use.

Water, Moisture and Dust

**WARNING!** Protect the product from water, moisture and dust. The presence of electricity near water can be dangerous.

**WARNING!** When using this product outside, protect from rain using a suitable waterproof cover.

Ventilation

**WARNING!** Slots and openings are intended for ventilation purposes to ensure reliable operation of the product, and protect it from overheating. Do not block or cover any slots and openings.

Operating Environment

**CAUTION!** The product should not be used outside the operating temperature limits. Refer to the product technical specifications for the operating limits for the product.

Cleaning

**WARNING! Risk of electric shock.** Always disconnect and isolate the product from the power supply before cleaning.

**CAUTION!** Do not use solvent or oil-based cleaners, abrasives or wire brushes.

Maintenance

**WARNING!** Servicing or repair of this product must only be performed by qualified and trained electrical engineers.

**WARNING!** The fitting of non-approved parts and accessories, or the carrying out of non-approved alterations or servicing can be dangerous and could affect the safety of the product. It may also invalidate the terms and conditions of the product warranty.

About this Manual

The LED TFT high brightness on-camera prompters are available in 12, 15, 17 and 19 inch sizes. This manual describes the installation of the four sizes of prompter onto a suitable camera support, using the range of compatible hoods and mounts available for various camera configurations.
Components and Connections

On-Camera Prompter Key Components

The illustration below highlights the key components used in a typical prompter installation.

1. Camera mounting plate
2. Counterbalance rods and weights
3. Light shield cloth
4. Hood (moulded or folding variants)
5. Reflective glass
6. LED TFT monitor display
7. Built-in tally light indicator
8. Monitor mounting rods and fixings
9. Main prompter mounting extrusion
10. Hood mounting brackets
Prompter Installation Components

The following section describes the range of component parts available for a complete prompter installation using the LED TFT range of monitors. Many of the parts listed are optional, depending on the specific requirements of the installation.

Camera Mounting Components

<table>
<thead>
<tr>
<th>No.</th>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>MT-BLACK</td>
<td>Camera mounting plate for larger studio camera configurations</td>
</tr>
<tr>
<td>2</td>
<td>MT-RED</td>
<td>Camera mounting plate for smaller ENG camera configurations</td>
</tr>
<tr>
<td>3</td>
<td>TR-5, TR-7, TR-12</td>
<td>One pair of 5, 7 or 12 inch* telescopic rods are required for use with the MT-BLACK plate</td>
</tr>
</tbody>
</table>

*Retracted length of the rods.

Prompter Mounting Components

<table>
<thead>
<tr>
<th>No.</th>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>EXT-M or EXT-L</td>
<td>Extrusion, medium or long</td>
</tr>
<tr>
<td>5</td>
<td>TFT-RDS</td>
<td>Prompter monitor support rods</td>
</tr>
<tr>
<td>6</td>
<td>CBMT-R</td>
<td>Counterbalance weights, 10 lb (4.5kg)</td>
</tr>
<tr>
<td>7</td>
<td>CBMT-R20</td>
<td>Counterbalance weight, 20 lb (9Kg)</td>
</tr>
</tbody>
</table>
Components and Connections

Hood Components

<table>
<thead>
<tr>
<th>No.</th>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>MH-S</td>
<td>Moulded hood, standard</td>
</tr>
<tr>
<td>8</td>
<td>MH-W</td>
<td>Moulded hood, wide</td>
</tr>
<tr>
<td>9</td>
<td>FH-S</td>
<td>Folding hood, standard</td>
</tr>
<tr>
<td>10</td>
<td>FH-XW</td>
<td>Folding hood, extra wide</td>
</tr>
<tr>
<td>11</td>
<td>RGMH-S, RGMH-W, RGFH-S, RGFH-XW</td>
<td>Reflective glass - sizes to match the hood models</td>
</tr>
<tr>
<td>12</td>
<td>LIGHTSHIELD-S</td>
<td>Light shield keyhole cloth</td>
</tr>
<tr>
<td>13</td>
<td>LIGHTSHIELD-L</td>
<td>Light shield cloth, large</td>
</tr>
</tbody>
</table>
Components and Connections

Box Contents

1  2

Tools Required
Metric Allen key set.

<table>
<thead>
<tr>
<th>No.</th>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LED12TFT-ME</td>
<td>12, 15, 17 or 19 inch LED TFT prompter monitor</td>
</tr>
<tr>
<td></td>
<td>LED15TFT-ME</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LED17TFT-ME</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LED19TFT-ME</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>LED12TFT-ME-SDI</td>
<td>12, 15, 17 or 19 inch LED TFT prompter monitor with HD/SDI installed</td>
</tr>
<tr>
<td></td>
<td>LED15TFT-ME-SDI</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LED17TFT-ME-SDI</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LED19TFT-ME-SDI</td>
<td></td>
</tr>
</tbody>
</table>
Components and Connections

Prompter Monitor Connections

1. Power switch
2. Fuse holder
3. AC power socket (IEC)
4. DC power socket (4 pin XLR)
5. Composite video IN and OUT
6. Video loop/terminate switch
7. Tally light sensor IN socket
8. Tally light repeat OUT socket
9. Accessory 12V OUT socket
10. VGA IN socket
11. HD/SDI video IN and OUT (HD/SDI models only)

Prompter Monitor Control Panel

1. Backlight setting buttons
2. Video input selection button
3. Onscreen engineering setup menu button
4. Onscreen menu navigation buttons
5. Picture rotation button
Mounting the Camera and Telescopic Rods

**WARNING!** Before attempting to install or adjust the prompter assembly, the tilt axis of the head support must be securely locked horizontally (tilt axis).

A pair of telescopic rods* must be used to mount the prompter system. A camera mounting plate may also be required between the head support and the camera body to allow installation of the prompter system. Different sizes of mounting plates are available, depending on the type of camera being used.

*The MT-RED mounting plate does not require the telescopic rods.

For more information on the camera mounting plate options available, see the section **Camera Mounting Components** on page 5.

**Direct Mounting to the Camera Head Support**

1. Fit the camera and any fixing plate being used to the top of the camera head support.

2. Screw the telescopic rods (TR-5, TR-7 or TR-12) into the mounting holes on the front of the camera head support.
Installation

MT-BLACK Mounting Plate

1. Fit the camera head support plate to the base of the MT-BLACK mounting plate.

2. Fit the mounting plate for the camera being used to the top of the MT-BLACK mounting plate, using the fixing screws provided.

3. Fit the MT-BLACK mounting plate to the camera support.

4. Fit the camera to the top of the MT-BLACK mounting plate.
5. Screw the telescopic rods (TR-5, TR-7 or TR-12) into the mounting blocks on the MT-BLACK mounting plate.

2. Fit the mounting plate for the camera being used to the top of the MT-RED mounting plate, using the fixing screws provided.

MT-RED Mounting Plate

1. Fit the MT-RED mounting plate to the camera support.

3. Firmly clip the camera into position on the mounting plate.
Mounting the Extrusion

1. Depending on the mounting method used in the installation:
   a) **MT-BLACK and Direct Mounting** - Loosen the twist locks on the telescopic rods to loosen the extension sections.
   b) **MT-RED Mounting** - Loosen the clamp handles securing the rods. Slide the rods forwards to improve access.

2. Remove the two protective end caps from the extrusion.

3. Observing the correct orientation, slide the extrusion over the clamps on the end of the rods.
4. Centralise the extrusion between the two rods, aligning the marker with the centre of the camera lens.

5. Turn the rods to tighten the clamps onto the rear of the extrusion. The clamps can be tightened securely by using a suitable Allen key as a lever through the holes in the rods.

---

Mounting the Prompter Monitor

- **WARNING!** Before attempting to install or adjust the prompter monitor assembly, the tilt axis of the head support must remain securely locked horizontally.

- **WARNING!** The prompter monitor must be isolated from the AC power supply during installation or adjustment.

When the extrusion is fitted and correctly secured to the camera mount, the prompter monitor can be fitted. This the same procedure regardless of the monitor size (12, 15, 17 or 19 inch).

1. Unscrew the end caps from the two prompter monitor support rods (TFT-RDS).
Installation

2. With the rod mounting screws loosened, slide the monitor rods through the rod mountings in the base of the prompter monitor.

3. Refit the end caps to the end of the monitor rods.

4. With the monitor supported, carefully slide the end clamps of the prompter monitor rods into the slot on the front of the extrusion.

5. Ensure that the indents on the end clamps are correctly seated on the extrusion.
6. Centralise the prompter monitor with the marker on the extrusion. Secure the monitor in position by tightening the clamping screw.

7. Slide the prompter monitor back and tighten the rod mounting screws on the base.

Assembling and Fitting the Hoods

A range of hoods are available for use with the LED TFT on-camera prompters. The hoods are available in solid moulded or folding versions, in various sizes, to suit the camera and monitor being used in the installation. Fixing brackets are supplied for use with the hood variant being installed.

For more information on the hoods available see the section Hood Components on page 6.

Assembling the Moulded Hoods - Both Sizes

1. Align the hood bracket and two fixing screws with the holes in the side of the hood.

2. Tighten the fixing screws to secure the hood bracket in position.

3. Repeat steps 1 and 2 for the opposite hood bracket.
Folding Hoods - Initial Assembly
The hoods are supplied flat-packed, and require basic assembly.

1. Fold the back plate of the hood out away from the top flag.

When used for outside broadcasts and other portable applications, the hoods can be easily folded flat again for transportation.

2. Fold the side flags outwards.

3. Align the two eyelets in the top flag with the tabs and twist to lock.
4. Align the single eyelets in both the side flags with the tabs and twist to lock.

5. Fold the Velcro flaps down over the top and side flags.

Assembling the Standard Folding Hood

1. Align the slot in the hood bracket and the two clamping knobs with the two threaded studs on the rear of the hood.

2. Tighten the clamping knobs to secure the hood bracket in position.

3. Repeat steps 1 and 2 for the other hood bracket.
Assembling the Extra Wide Folding Hood

1. Align the holes in the prompter and angle brackets with the two threaded holes in the mounting plate. Tighten the fixing screws to secure the whole bracket assembly.

2. Align the assembled bracket with the holes in the rear of the hood. Tighten the fixing screws to secure the bracket in position.

3. Repeat steps 1 and 2 for the opposite hood bracket.

Fitting the Hoods

When the hood has been assembled, it can be installed onto the prompter assembly.

Fitting the Moulded Hood - Both Sizes

1. Align the clamps on the ends of the hood brackets with the slot in the top of the extrusion. Slide the hood assembly onto the extrusion.

2. Centralise the hood assembly with the lens and prompter monitor, and tighten the clamp locks to secure firmly in position.
Fitting the Standard Folding Hood
1. Align the clamps on the ends of the hood brackets with the slot in the top of the extrusion. Slide the hood assembly onto the extrusion.

2. Centralise the hood assembly with the lens and prompter monitor, and tighten the clamp locks to secure firmly in position.

Fitting the Extra Wide Folding Hood
1. Align the clamps on the ends of the hood brackets with the slot in the top of the extrusion. Slide the hood assembly onto the extrusion.

2. Centralise the hood assembly with the lens and prompter monitor, and tighten the clamp locks to secure firmly in position.
Installation

Fitting the Extrusion End Caps

Firmly press the extrusion end caps into place at both ends of the extrusion.

**WARNING! Risk of personal injury or injury to others.** When the hood has been installed, the supplied extrusion end caps must be refitted.

Adjusting the Vertical Hood Position

The vertical position of the hood must be adjusted to centralise it with the camera lens.

**Moulded Hoods and Extra Wide Folding Hood**

1. Loosen the two side clamp screws to adjust the position of the hood on the rods.

2. Adjust the vertical position of the hood to centralise it with the camera lens and fully re-tighten the clamp screws.

**Standard Folding Hood**

1. Undo the four clamping knobs on the rear slides of the hood mounting brackets.

2. Adjust the vertical position of the hood on the slides to centralise it with the camera lens and fully re-tighten the clamping knobs.
Adjusting the Prompter Assembly Position

The horizontal position of the prompter assembly must be adjusted to optimise its position relative to the camera lens.

MT-BLACK Mounting Plate Adjustment
1. Loosen the twist locks on the telescopic rods and move the prompter assembly back until the hood overlaps the camera lens.
2. Tighten the twist locks to secure the assembly.

MT-RED Mounting Plate Adjustment
1. Loosen the clamp handles on the mounting plate and move the prompter assembly back until the hood overlaps the camera lens.
2. Tighten the clamp handles to secure the assembly.

Fitting the Reflective Glass Panel

When the hood has been installed, the reflective glass panel can be fitted to the prompter assembly.

Panel Orientation
For the LED TFT prompter to display images, it is essential that the reflective side of the glass is installed facing outwards. The reflective side of the glass can be established as follows:

Carefully hold a blunt object such as a coin against the surface of the glass.

If the object is being held against the reflective side, there will be no gap (depth of the glass) before the reflection.

WARNING! Risk of personal injury or injury to others. Care must be taken when handling and installing the reflective glass panels. Always store spare glass panels in the original packaging.

WARNING! Only use the correct size glass panel designed for the installed hood.
Fitting the Glass Panel
The installation procedure for the glass panel is the same on all types of hood, although there are more fixing screws on the larger hoods.

1. Remove all the fixing screws from the top of the hood to release the top glazing bar.

2. Carefully position the glass panel on the bottom glazing bar inside the hood.

3. With the glass supported at all times, replace the top glazing bar and secure with the fixing screws.
Fitting the Light Shield Cloth

CAUTION! Ensure that the light shield cloth is only loosely fitted around the body of the servo lens to allow it to continue operating freely.

A light shield cloth must be fitted between the camera lens and the rear of the hood to prevent light entering behind the glass. This is essential for the prompter to display text clearly.

Different cloths are available depending on the installation:

**Folding Hood Light Shield Cloth**

The folding hoods have the light shield cloth permanently attached. There is a draw string to shape the cloth opening around the camera lens.

**Moulded Hood Light Shield Cloth**

1. Secure the light shield cloth to the Velcro strips on the rear of the hood.
2. On light shield cloths with the ‘keyhole’ cut out, seal the join with the Velcro strips on the cloth.

Fitting the Counterbalance Weights

The prompter installation may require counterbalance weights to be fitted to the rear of the mounting to compensate for the front-heavy effect of the prompter monitor and hood.

1. Unscrew the end caps from the mounting rods protruding from the rear of the mounting plate.
2. Carefully slide the required counterbalance weights onto the rods.
3. Refit the end caps securely.
Balancing and Adjustments

**WARNING!** After fitting or adjusting the prompter assembly and any accessories, the payload must be correctly re-balanced.

Balancing is achieved by correctly positioning the counterbalance weights. Other adjustments can also be made to the prompter assembly position if this is a requirement of the installation.

**Basic Balancing**

1. Slide the counterbalance weights along the rods and secure in position with the two clamping screws. Unlock the tilt axis and carefully check the fore and aft balance of the payload.

2. If the payload is not correctly balanced, lock the tilt axis and:
   a) If the payload is falling forward (front heavy), move the counterbalance weights further back on the rods.
   b) If the payload is falling backwards (rear heavy), move the counterbalance weights further forward on the rods.

3. Secure the counterbalance weights and re-check the balance.

**Splitting the Counterbalance Weights**

If the counterbalance weights (CBMT-R) have too much effect, even in the closest mounting position, one half can be removed.

1. If fitted, remove the counterbalance weights from the prompter assembly.

2. Using a 4 mm Allen key, remove the two screws securing the weights together.

3. Separate the weights and refit one of the halves with the clamping screws.

**WARNING!** After fitting or adjusting the prompter assembly and any accessories, the payload must be correctly re-balanced.
Additional Adjustments

⚠️ **WARNING!** Before attempting to adjust the prompter assembly, the tilt axis of the head support must be securely locked horizontally (tilt axis).

Additional adjustments can be made to the camera mounting plate and prompter assembly if balancing cannot be achieved or there are specific requirements for an installation.

**MT-BLACK Adjustments**

The top camera mounting plate can be moved to offset the position of the camera, by removing the bottom screws with a 4 mm Allen key and reseating the assembly in the other four screw holes.

⚠️ **WARNING!** Before attempting to adjust the positions of the mounting blocks on the camera plate, the counterbalance weights and prompter assembly must be removed.

The rod mounting blocks can be moved to different screw hole positions on the mounting plate as required, by removing the block fixing screws with a 5 mm Allen key.
Installation

MT-RED Adjustments
The top mounting plate can be moved to offset the position of the camera, by removing the bottom screws with a 4 mm Allen key and reseating the assembly in the other four screw holes.

Connecting the Prompter Monitor

Video Connections
Connection using composite video or HD/SDI to the prompter monitor must always be made with screened 75Ω coaxial cable. The video cable screen must be connected to earth (ground) at both ends.

Connect the video signal (for prompter display) using one of the following options.

Composite Video Connection

Camera Support Adjustments
If necessary, further balancing and positional adjustments can be made to the camera head support (manual or robotic).
**VGA Connection**
This connection allows a PC VGA signal to be displayed on the monitor.

**Video Termination**
The prompter monitor is fitted with a video loop/terminate switch which provides a 75Ω termination to the composite video input. This means the video signal can either terminate at the monitor or be looped out to an Autoscript accessory.

**Additional Accessory Connections**
Autoscript accessories such as tally sensors or the ClockPlus can also be connected to the monitor.

**Tally Light Sensor Connection**
This provides a connection for an Autoscript external opto sensor attached to a camera tally light to operate the tally indicator on the monitor.

**Tally Light Repeat Connection**
This provides connection for an Autoscript tally device such as the ClockPlus to relay the tally indication signal being used by the monitor.
Installation

DC Accessory Connection

**CAUTION!** The DC accessory out socket is intended for use with approved Autoscript accessories only. Do not exceed the current output limit of the product when powering auxiliary devices.

Provides a 12 VDC supply to operate external accessories such as the Autoscript TallyPlus.

For more information on the specifications of the accessory sockets, see the section **Connections Data** on page 36.

Power Connections

The prompter monitor can be powered by either an AC supply or a 12 VDC supply.

AC Power Connection

**WARNING!** This product is Class 1 equipment. For safe operation this equipment must be connected to a power supply that has a protective earth connection (US: ground). Ensure that an IEC 3-core AC supply cable is used.

DC Power Connection

**CAUTION!** When powering the product on DC power, use a regulated 12 VDC power source capable of supplying at least 5 A.
Powering Up

Before powering up, ensure that all external cable connections have been secured correctly.

To power up, operate the on/off rocker switch. If power is present, the switch will illuminate.
Configuration

Control Panel Buttons
The buttons on the control panel are used to configure the setup of the prompter monitor screen. The buttons have legends to indicate their function, and are back-illuminated.

The control panel buttons are clustered in four distinct groups.

Backlight Control Buttons
This is a group of four buttons and an indicator LED to control the function of the monitor's backlight. The button legends change colour depending on their current status.

<table>
<thead>
<tr>
<th>Button</th>
<th>Button Function</th>
<th>Colour Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIM</td>
<td>Activates a mode to dim the backlight after a predetermined period of prompter inactivity*.</td>
<td>When DIM mode selected. When CUT or no mode selected.</td>
</tr>
<tr>
<td>CUT</td>
<td>Activates a mode to turn the backlight off after a predetermined period of prompter inactivity*.</td>
<td>When CUT mode selected. When DIM or no mode selected.</td>
</tr>
<tr>
<td>↑</td>
<td>Increases the normal backlight operating brightness.</td>
<td></td>
</tr>
<tr>
<td>↓</td>
<td>Decreases the normal backlight operating brightness.</td>
<td></td>
</tr>
</tbody>
</table>

*To exit either mode, press the DIM or CUT button again.

Eco +Plus+ LED
The Eco +plus+ LED provides an indication of the current status of the monitor backlight.

<table>
<thead>
<tr>
<th>LED Colour</th>
<th>Backlight Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>🌚</td>
<td>Backlight operating at the selected full brightness.</td>
</tr>
<tr>
<td>🌚</td>
<td>DIM or CUT mode is in operation due to prompter inactivity.</td>
</tr>
</tbody>
</table>

Direct Access Buttons
These two buttons provide quick access to common functions.

<table>
<thead>
<tr>
<th>Button</th>
<th>Button Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>I/P</td>
<td>INPUT SELECTION button steps to the next available video input.</td>
</tr>
<tr>
<td>🔄</td>
<td>PICTURE ROTATION button steps through all four combinations of horizontal and vertical scanning directions, allowing the appropriate picture orientation for direct or mirror viewing to be set.</td>
</tr>
</tbody>
</table>

Setup Button

<table>
<thead>
<tr>
<th>Button</th>
<th>Button Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>SETUP</td>
<td>SETUP button to activate the on-screen engineering setup menu.</td>
</tr>
</tbody>
</table>
**Menu Buttons**

This group of five buttons are used for on-screen menu navigation.

<table>
<thead>
<tr>
<th>Button</th>
<th>Button Function</th>
</tr>
</thead>
</table>
| **MENU** | MENU button:  
• Turns on screen display (OSD) menus ON or OFF  
• Goes back to the previous menu page |
| **DOWN ARROW** | DOWN ARROW button:  
• Moves the selector to the next function |
| **UP ARROW** | UP ARROW button:  
• Moves the selector to the previous function |
| **RIGHT ARROW** | RIGHT ARROW button:  
• Increases the OSD parameter value  
• Enters a sub menu from a higher menu  
• Confirms selection of an OSD function |
| **LEFT ARROW** | LEFT ARROW button:  
• Decreases the OSD parameter value |

**User Monitor Setup Menus**

The user monitor setup menus are explained in the following table, with sub menus and any parameters that can be changed by the user.

Where there is a variable parameter in a menu, the maximum and minimum limits are shown either side of the current set value.

The control range of some parameters is limited intentionally to prevent erratic or undesirable operation.

The menus are accessed by pressing the SETUP key, and navigated using the MENU and four ARROW keys.

<table>
<thead>
<tr>
<th>Sub Menus</th>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
</table>
| **Main Menu - Picture Size** | • Full size  
• Mid size | Allows either the full screen size to be used, or a reduced picture size for close reading of prompter text. |
| **Main Menu - Tally Setup** | | |
| Tally Brightness | 0 - 31 | Provides control over the brightness of the red tally light on the monitor. |
| Opto Sensitivity | 0 - 31 | Changes the sensitivity of the opto sensor input for different types of sensor. |
| VITally Number | 1 - 16 | Not currently in use. |
| **Main Menu - Eco +Plus+ Setup** | | |
| Maximum Power Setting | • LOW  
• MID  
• FULL | Allows the monitor to operate up to its maximum brightness or at user configured lower levels. |
| Eco +Plus+ Dim Level | 5 - 63 | Brightness level setting for the DIM mode. |
Monitor Setup Advanced Menus

The monitor setup advanced menus are shown in the following table.

To access the menus, either press all four ARROW keys simultaneously, or press the SETUP key for two seconds whilst turning the power to the monitor on. The menus are navigated using the MENU and four ARROW keys.

<table>
<thead>
<tr>
<th>Sub Menus</th>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Menu - Eco +Plus+ Setup (Cont.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eco +Plus+ Delay</td>
<td>• 1 min • 3 min • 10 min</td>
<td>Sets the time delay period of prompter inactivity before the monitor will DIM or CUT (if activated) the screen brightness.</td>
</tr>
<tr>
<td>Main Menu - Switch Brightness</td>
<td></td>
<td></td>
</tr>
<tr>
<td>In-Use Setting</td>
<td>2 - 31</td>
<td>Sets the brightness level of the switch legends when the switches are being operated.</td>
</tr>
<tr>
<td>Dimmed Setting</td>
<td>0 - 31</td>
<td>Sets the brightness level of the switch legends when no operation is taking place. This can be set to zero (illumination off).</td>
</tr>
<tr>
<td>Main Menu - Activity Detect Setup - PAL Window Setup</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PAL Window Start Line</td>
<td>50 - 230</td>
<td>Video activity in the Eco +Plus+ modes is detected within a “window” on the active screen area. The start line and length of the window is measured in TV lines from the start of the TV field. The size and position of the window can be adjusted for PAL or NTSC.</td>
</tr>
<tr>
<td>PAL Window Length</td>
<td>1 - 205</td>
<td></td>
</tr>
<tr>
<td>NTSC Window Start Line</td>
<td>46 - 210</td>
<td></td>
</tr>
<tr>
<td>NTSC Window Length</td>
<td>1 - 184</td>
<td></td>
</tr>
<tr>
<td>Detection Method</td>
<td>Digital Only</td>
<td></td>
</tr>
<tr>
<td>Main Menu - Low Power Setting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low Power Setting</td>
<td>5 - 32</td>
<td>Sets the maximum brightness/power for the LOW power setting.</td>
</tr>
<tr>
<td>Main Menu - Mid Power Setting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mid Power Setting</td>
<td>16 - 48</td>
<td>Sets the maximum brightness/power for the MID power setting.</td>
</tr>
</tbody>
</table>
The LED TFT monitors are shipped with configured display settings which have been optimised for prompting text display. However, the LCD parameter menus provide options for adjusting settings such as contrast, colour and picture format ratios.

This is accessed by pressing the MENU key, and navigated using the MENU and four ARROW keys.

<table>
<thead>
<tr>
<th>Sub Menus</th>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Main Menu - Over Temp Options</strong></td>
<td></td>
<td>Sets a reduction in the brightness level of the backlight to reduce power consumption if excess temperature is detected by the monitor's internal temperature sensor. When the temperature has dropped to an acceptable level the full brightness range will be automatically restored.</td>
</tr>
<tr>
<td><strong>Main Menu - Version</strong></td>
<td></td>
<td>Displays the version of software loaded into the monitor control processor.</td>
</tr>
<tr>
<td><strong>Main Menu - Factory Reset</strong></td>
<td></td>
<td>If YES is selected, all menu parameters are reset to factory default settings. This does not affect the LCD display driver card settings. The screen briefly displays the message, *** FACTORY RESET – DONE! *** as confirmation that a reset has taken place.</td>
</tr>
</tbody>
</table>

**LCD Parameters Menu**

The LED TFT monitors are shipped with configured display settings which have been optimised for prompting text display. However, the LCD parameter menus provide options for adjusting settings such as contrast, colour and picture format ratios.

This is accessed by pressing the MENU key, and navigated using the MENU and four ARROW keys.
Maintenance

Routine Maintenance
The LED TFT on-camera prompters require minimal routine maintenance, apart from checking the connections and overall operation periodically.

Routine checks
During use, check the following:

• Check cables for signs of wear or damage. Replace as necessary.
• Check that all cables are connected properly.

Cleaning

WARNING! Risk of electric shock. Disconnect and isolate the product from the power supply before cleaning.

Prompter Assembly Cleaning
During normal use the only cleaning required should be a regular wipe over with a dry, lint-free cloth. Dirt accumulated during storage or periods of disuse may be removed with a vacuum cleaner. Particular attention should be paid to all connection ports on the monitor.

Reflective Glass Cleaning

WARNING! Risk of personal injury or injury to others. Care must be taken when handling or cleaning the reflective glass panels. Always store spare glass panels in the original packaging.

Care and cleaning of the reflective glass panel is essential for increased life and prompting display performance.

No solvents or glass cleaners should be used. Only use clean water and a damp lens cloth when cleaning. Do not apply excessive pressure to the reflective glass panel during the cleaning process.

Changing the Fuse

WARNING! Risk of electric shock. Disconnect the power cable. Fuses must only be changed by a trained and competent person.

CAUTION! The replacement fuse must be the correct rating: Type 20mm ceramic tube fuse rated at 2A 250V AC.

1. Switch OFF and disconnect the power. It is not necessary to remove the payload or other cabling.

2. Using a flat-blade screwdriver, remove the fuse holder and discard the blown fuse.

3. Replace the fuse, then reinstall the fuse holder.
<table>
<thead>
<tr>
<th>Fault</th>
<th>Check</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>The monitor is not powering up.</td>
<td>Check that the AC power source is connected and secured.</td>
<td>See the section Powering Up on page 29</td>
</tr>
<tr>
<td></td>
<td>Check that the DC power source is connected and secured.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check that AC power is being supplied to the DC adaptor.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check the fuse and replace if necessary.</td>
<td>See the section Changing the Fuse on page 34</td>
</tr>
<tr>
<td>No prompting text or video display on the monitor screen.</td>
<td>Check that the video cable is connected and the video source is active.</td>
<td>See the section Video Connections on page 26</td>
</tr>
<tr>
<td></td>
<td>Use the INPUT SELECTION button to step through to the correct video input channel.</td>
<td>See the section Direct Access Buttons on page 30</td>
</tr>
<tr>
<td>The prompting text display is ‘noisy’ (poor quality imaging)</td>
<td>If the video signal is not looped through to an accessory, check that the 75Ω termination switch is ON.</td>
<td>See the section Video Termination on page 27</td>
</tr>
<tr>
<td></td>
<td>Ensure that quality screened cables have been used for the video signal and that the screen is earthed at both ends.</td>
<td></td>
</tr>
<tr>
<td>The prompting text display is the wrong orientation for viewing.</td>
<td>Use the PICTURE ROTATION button to select the correct orientation.</td>
<td>See the section Direct Access Buttons on page 30</td>
</tr>
<tr>
<td>Eco +Plus+ modes (DIM or CUT) are activating when the prompter is in use.</td>
<td>Increase the size of the detection “window” to ensure it detects active prompting text.</td>
<td>See the section Monitor Setup Advanced Menus on page 32</td>
</tr>
</tbody>
</table>
Technical Specification

Physical Data

<table>
<thead>
<tr>
<th></th>
<th>LED12</th>
<th>LED15</th>
<th>LED17</th>
<th>LED19</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width*</td>
<td>339 mm (13.3 in)</td>
<td>398 mm (15.7 in)</td>
<td>428 mm (16.8 in)</td>
<td>467 mm (18.4 in)</td>
</tr>
<tr>
<td>Height*</td>
<td>64 mm (2.5 in)</td>
<td>64 mm (2.5 in)</td>
<td>64 mm (2.5 in)</td>
<td>64 mm (2.5 in)</td>
</tr>
<tr>
<td>Depth*</td>
<td>272 mm (10.7 in)</td>
<td>313 mm (12.3 in)</td>
<td>355 mm (14 in)</td>
<td>385 mm (15.2 in)</td>
</tr>
<tr>
<td>Weight</td>
<td>2.95kgs (6.5lbs)</td>
<td>4.15kgs (9.1lbs)</td>
<td>5.15kgs (11lbs)</td>
<td>5.65kgs (12.4lbs)</td>
</tr>
</tbody>
</table>

*Excluding controls/connectors.

Environmental Data

Operating temperature range: 5°C to +40°C (41°F to +104°F)
Storage temperature range: -20°C to +60°C (-4°F to +140°F)

Electrical Data

Video inputs: Auto-sensing PAL/NTSC, VGA, HD/SD-SDI (Option)
AC power input: 90-260 VAC
DC power input: 12 VDC

<table>
<thead>
<tr>
<th></th>
<th>LED12</th>
<th>LED15</th>
<th>LED17</th>
<th>LED19</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC Power Consumption*</td>
<td>34 VA</td>
<td>47 VA</td>
<td>56 VA</td>
<td>88 VA</td>
</tr>
<tr>
<td>DC Power Consumption*</td>
<td>34 W</td>
<td>37.2 W</td>
<td>48 W</td>
<td>53 W</td>
</tr>
</tbody>
</table>

*For models with the HD-SDI Option add 0.2 A (2.4 W) @ 12 VDC or 2 VA AC to the power consumption figure.

Display Data

Backlight technology: High brightness LED
Brightness: 700 nits
Contrast ratio: 1024 x 768 (XGA)
Resolution: 160°(H), 160°(V)

<table>
<thead>
<tr>
<th></th>
<th>LED12</th>
<th>LED15</th>
<th>LED17</th>
<th>LED19</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagonal screen size</td>
<td>304.8 mm (12 in)</td>
<td>381 mm (15 in)</td>
<td>431.8 mm (17 in)</td>
<td>482.6 mm (19 in)</td>
</tr>
<tr>
<td>Display area</td>
<td>245.8 x 184.3 mm (9.7 x 7.2 in)</td>
<td>304.1 x 228.1 mm (12 x 9 in)</td>
<td>337.9 x 270.3 mm (13.3 x 10.6 in)</td>
<td>376.3 x 301.1 mm (14.8 x 11.8 in)</td>
</tr>
<tr>
<td>Reading range</td>
<td>4 m (12 ft)</td>
<td>5 m (15 ft)</td>
<td>6 m (18 ft)</td>
<td>6 m (18 ft)</td>
</tr>
</tbody>
</table>

Connections Data

DC Power Socket
Connector type: 4 pin XLR plug.

<table>
<thead>
<tr>
<th>Pin</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GROUND (connected to monitor chassis)</td>
</tr>
<tr>
<td>2</td>
<td>TALLY LOGIC INPUT (&gt;2.5 VDC in = Tally light ON, &lt;2 VDC in = Tally light OFF)</td>
</tr>
<tr>
<td>4</td>
<td>+12 VDC</td>
</tr>
</tbody>
</table>
Composite Video In and Out
Connector type: 75Ω BNC socket.

<table>
<thead>
<tr>
<th>Pin</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Centre</td>
<td>Composite Video In (PAL or NTSC)</td>
</tr>
<tr>
<td>Outer</td>
<td>GROUND (Cable screen)</td>
</tr>
</tbody>
</table>

HD/SDI In and Out
Connector type: 75Ω BNC socket.

<table>
<thead>
<tr>
<th>Pin</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Centre</td>
<td>HD/SDI In</td>
</tr>
<tr>
<td>Outer</td>
<td>GROUND (Cable screen)</td>
</tr>
</tbody>
</table>

Fully compliant with SMPTE 259M-C and SMPTE 292M standards.

Opto Sensor Input
Connector type: 3.5 mm mono jack socket.

<table>
<thead>
<tr>
<th>Pin</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tip</td>
<td>HOT</td>
</tr>
<tr>
<td>Sleeve</td>
<td>GROUND</td>
</tr>
</tbody>
</table>

Connection for an external Autoscript opto sensor to activate the built-in tally light on the monitor. The sensor is attached to the camera tally light and allows the monitor to mimic the operation of the camera tally.

Alternatively, the tally light can be triggered by connecting a contact closure (ground loop) to the opto sensor socket, or applying a positive logic voltage to the TALLY LOGIC input on pin 2 of the XLR socket.

Sensor/Grounding Loop Specification:
- Light Dependent resistor, 20kΩ at 10 Lux, 5KΩ at 100 Lux or (grounding) contact closure
- High illumination or contact closure = Tally light ON
- Low illumination or contact open = Tally light OFF

Tally Repeat Output
Connector type: 3.5 mm mono jack socket.

<table>
<thead>
<tr>
<th>Pin</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tip</td>
<td>HOT</td>
</tr>
<tr>
<td>Sleeve</td>
<td>GROUND</td>
</tr>
</tbody>
</table>

Open collector output giving contact closure to ground when the built-in monitor tally light is ON. Intended to be used to operate an external tally device such as the Autoscript ClockPlus.

Accessory DC Output
Connector type: 3.5 mm mono jack socket.

<table>
<thead>
<tr>
<th>Pin</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tip</td>
<td>+12V DC</td>
</tr>
<tr>
<td>Sleeve</td>
<td>GROUND</td>
</tr>
</tbody>
</table>

Provides a 12 VDC supply to operate external accessories such as the Autoscript TallyPlus. Fused internally with a resettable fuse.

VGA Input
Connector type: 15 pin High Density D socket

Pin connections conform to the VESA VGA standard.

Technical specifications are subject to change without notice.
FCC Certification

FCC Notice
This product complies with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference with radio communications. Operation of this product in a residential area is likely to cause harmful interference, in which case you will be required to correct the interference at your own expense.

FCC Warning
Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

FCC Declaration of Conformity
This product complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This product may not cause harmful interference.
2. This product must accept any interference received, including interference that may cause undesired operations.

Declaration of Conformity

Vitec Videocom Limited declares that this product has been manufactured in accordance with BS EN ISO 9001:2008.

This product complies with the following EU Directives:

- Low Voltage Directive 2006/95/EC
- EMC Directive 2004/108/EC

Compliance with these directives implies conformity to applicable harmonized European standards (European Norms) which are listed on the EU Declaration of Conformity for this product or product family. A copy of the Declaration of Conformity is available upon request.

Environmental considerations

ROHS Compliance Statement
Vitec Videocom Limited is compliant with the European Union Directive 2002/95/EC Restrictions of Hazardous Substances (RoHS) that restricts the use of hazardous substances in Electrical and Electronic Equipment.

This symbol marked on the product or its packaging indicates that this product must not be disposed of with general household waste. In some countries or European Community regions separate collection systems have been set up to handle the recycling of electrical and electronic waste products. By ensuring this product is disposed of correctly, you will help prevent potentially negative consequences for the environment and human health. The recycling of materials helps conserve natural resources.

Visit our website for information on how to safely dispose of this product and its packaging.

In countries outside the EU:
Dispose of this product at a collection point for the recycling of electrical and electronic equipment according to your local government regulations.

Pollution statement
This equipment is designed for operation in Pollution Degree 2 environments.