

Atec XFD070



Owner's Manual_V1.0

Important Safety Instructions

The device repair must be done by qualified specialists only.

Do not expose this product to direct sunlight, heat or humid conditions.
Please use a sun shade outdoors if necessary.

WARNING! To avoid possible malfunctions the device must not be exposed to rain or moisture. Prevent water or other liquids from getting inside the device.

Do not use any damaged or leaking batteries and please replace the battery immediately if its working life becomes significantly short

Keep away from strong light while using this product so as to obtain the clearest and the most colorful picture.

Please use the supplied power sources.

Do not use chemical solutions to clean this unit. Simply wipe with a clean soft cloth to remove fingerprints or smudges.

Please avoid heavy impact or drop on the ground.

Please do not cover the vents and holes on the device to ensure good ventilation. Otherwise it will lead to overheating and reduces the service life.

FCC (Federal Communications Commission)

This equipment has been tested and found to comply with the limits for class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interface when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential to correct the interference at his own expense

CAUTION: Change or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.



1. Overview

Thank you for purchasing the AVtec XFD070 Full HD On-camera monitor. This 7" color LCD monitor is a great tool for focusing, composing, and viewing images/video clips directly from your digital camera/video camera. It has advanced integrated digital signal processing circuits and a IPS LED Panel which makes it high brightness with low power consumption, stable performance and low radiation. It is conveniently sized for easy transportation, and it is perfect for difficult shooting situations. To obtain the best results with your new XFD070, please take the time to read this manual.

2. Features

- 7" IPS LCD Panel
- 3840×2160p (30/29.97/25/24/23.98 Hz), 4096×2160p (24Hz)
- 1920x1200 Full HD screen
- Supports 4K UHD HDMI input and output
- Built-in speaker & integrated jack port for headphones
- Firmware upgradable through USB
- Supports a variety of battery types (F970/ LP-E6/ U60)
- AC/DC Adapter with EU, UK, US & AU plugs included
- Detachable sun hood attachment & foldable sun hood
- Two assignable function buttons
- Focus Assist, Center Marker, Safe Frames, Check Field
- Image Freeze, Image Flip & Pixel-to-Pixel
- Histogram, Exposure (Zebras) & False Colors
- Analog stereo L/R, Embedded Audio Display
- Image Zoom function, Image Nine Grid and Anamorphic Mode
- Brightness, Contrast, Tint, Saturation and Color Temperature adjust

3. Included in this box

- 1x AVtec XFD070 Full HD Monitor
- 3x Battery bracket for NP-F, BP-U & LP-E6 batteries
- 1x AC/DC Combi adapter with EU, US, UK & AU plugs
- 1x Sun hood attachment & detachable sun hood
- 1x Ball head with 1/4" camera screw
- 1x HDMI cable
- 1x Owner's Manual






3.1 Battery brackets & AC/DC Adapter

Battery brackets

The battery bracket for Sony NP-F batteries is installed on the monitor. You can easily change the battery bracket by unscrewing the 4 small screws on the back of the battery bracket. Unplug the bracket connector from the slot, plug in the connector of the bracket you would like to install and fasten the 4 screws.

The following table will give you an idea which brackets you are able to use for the Sony and Canon battery types.

Item:	For use with:
NP-F bracket 	Sony NP-F970, NP-F960, NP-F950, NP-F930, NP-F770, NP-F750, NP-F730, NP-F570, NP-F550, NP-F530, NP-QM91D, NP-QM91, NP-QM90D, NP-QM90, NP-QM71D, NP-QM71, NP-QM70D, NP-QM70, NP-QM51D, NP-QM51, NP-FM71 & NP-FM70 series.
BP-U bracket 	Sony BP-U30, BP-U60 & BP-U90
LP-E6 bracket 	Canon LP-E6

NOTE: Please remove the battery from the bracket before changing the battery bracket itself.

AC/DC Combi adapter

The supplied AC/DC combi adapter (100-240V~) supports AC or DC power and uses wall, vehicle, or airplane power outlets to power your device. Four power plugs are supplied for EU, US, UK and AU. Slide the selected plug on to the adapter until you hear a soft click.



3.2 Other included accessories

Sun hood

The firm but flexible plastic sun hood is designed to protect your screen and reduces strong light reflection. It mounts to the monitor with a strong easy-on-easy-off construction with hook and loop fasteners.



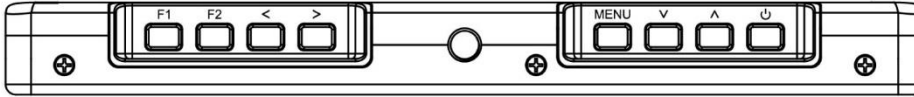
Ball head

The ball and socket joint of the supplied ball head allows movement on all axes at the same time and has a single locking screw for easy fixation to your device. Slide the ball head into a hot shoe and fasten it by turning the wheel on the bottom of the ball head to the right.



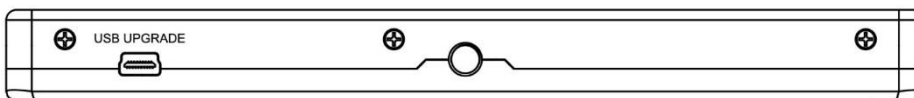
4. Panel & Controls

Button Instruction



Button	Function when OSD is not displayed	Function when OSD is displayed
F1	Custom button F1	
F2	Custom button F2	
<	Decrease the volume	Decrease or adjust value of selected parameter
>	Increase the volume	Increase or adjust value of selected parameter
MENU	Display OSD Main menu	Return to previous OSD menu
V		Select next menu item
^		Select previous menu item
⏻	Power On/Off button	

Port Instruction (bottom)



USB UPGRADE: Firmware USB upgrade port




 : 3.5mm Earphone port output


HDMI OUT: HDMI signal output

HDMI IN: HDMI signal input

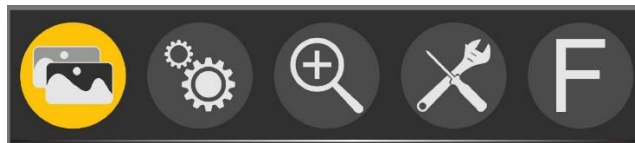
DC12V: DC power input interface, polarity as the input

power 

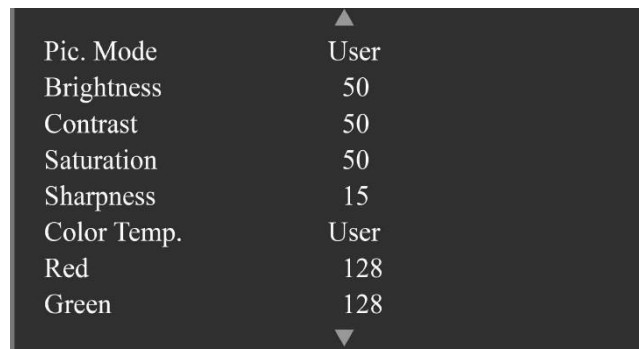
5. Operation instructions

After correctly connecting to the power supply, the indicator will turn (Red), press  to turn on monitor power, the indicator will be Yellow, and then input HDMI signals, the indicator will turn from Yellow to Green.

1. Press **MENU** button in the front of the panel to enter the main menu, and press **◀** or **▶** button to go through the contents of the menu and secondary menu functions.



2. Then press **▼** button to enter secondary menu (cursor moves to secondary menu position). If you need to go through or select the items in the secondary menu, then press **▼** or **▲** button to move the cursor.



Pic. Mode	User
Brightness	50
Contrast	50
Saturation	50
Sharpness	15
Color Temp.	User
Red	128
Green	128

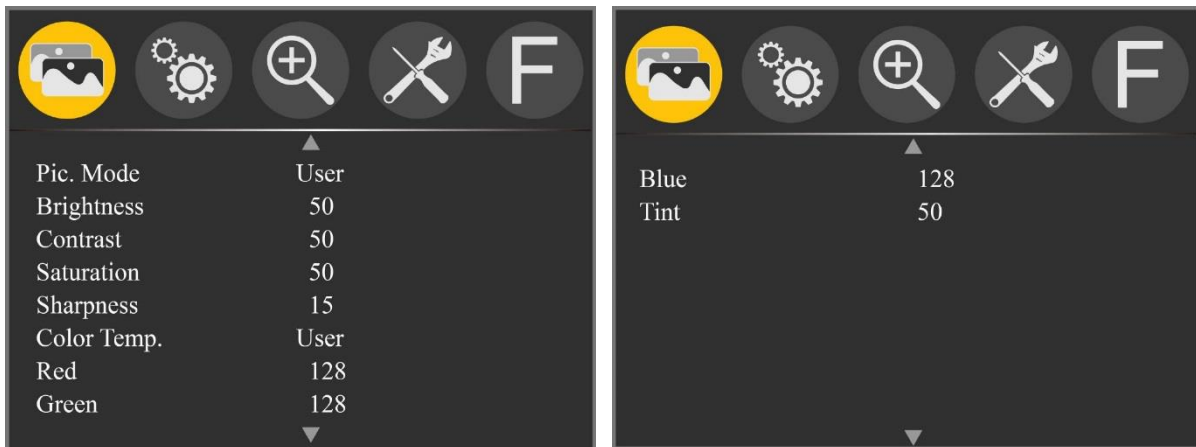
3. After selecting the items in the secondary menu, then press **◀** or **▶** button to adjust the item parameters.
4. Press **▼** or **▲** button to choose another parameter adjustment after confirming the item adjustment.
5. Press **MENU** button to exit the menu.

6. Menu instructions

P2P, Zoom ALL, L/R Zoom, U/D Zoom, Aspect Ratio, Anamorphic Mode, Nine Grid, all functions associated with the image magnification function are supported in 4K Mode.

Image Color menu

Use one of the ▼ button to enter the Image Color menu. Press ▲ or ▼ to navigate through the settings. Once the desired setting is highlighted, use the ◀ or ▶ buttons to navigate through the sub-menu functions. Press the MENU button to activate the function.



Menu item:	Description:
Pic. Mode	Standard, Dynamic, Mild, User Select “user” to adjust the image of Brightness, Contrast, Saturation, Sharpness” according to the practical situation.
Brightness	To adjust the monitor’s brightness. (0~100).
Contrast	To adjust the contrast. (10~100). Please note that when adjusting the proportion too high or too low, it will make the picture lose the color.
Saturation	To adjust color concentration. (0~100).
Sharpness	Also called “Resolution”, an indicator for the image plane definition and image edge sharpness. (0~100).
Color Temp.	6500 K, 9300 K or User. The User option allows you to adjust Red, Green & Blue.
Tint	To adjust the cool and warm hue of the image. (0~100).

Settings menu

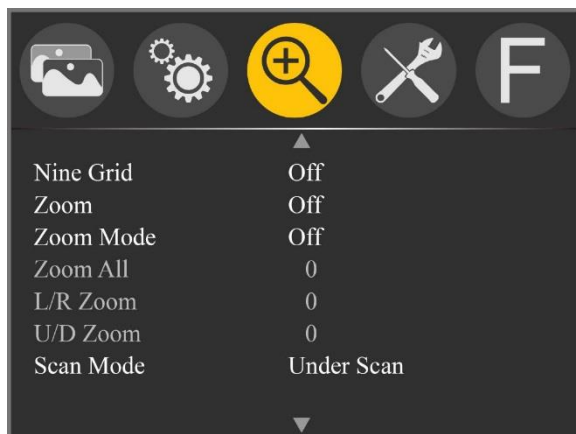
Use one of the ▼ button to enter the Settings menu. Press ▲ or ▼ to navigate through the settings. Once the desired setting is highlighted, use the ◀ or ▶ buttons to navigate through the sub-menu functions. Press the MENU button to activate the function.



Menu item:	Description:
Language	To change the menu language.
Aspect Ratio	To change the display ratio to: Auto., 4:3, 16:9, Full Screen, Panorama, P2P.
No Signal	To select screen color when no signal. Black (recommended), White, Red, Green or Blue Screen.
OSD Trans.	Menu transparency. Off, Low, Medium or High.
OSD H	To adjust the horizontal position of the menu. (0~100).
OSD V	To adjust the vertical position of the menu. (0~100).
OSD Time	Adjust the menu time. Off, 10s, 20s, 30s
Backlight	To adjust the brightness of screen backlight. (0~100).
Power On	Manual or Auto setting.
USB Upgrade	To update the firmware via USB. Please check the firmware page on AVtec.tv .
Reset	Restore factory settings by pressing ▶ button.

Zoom menu

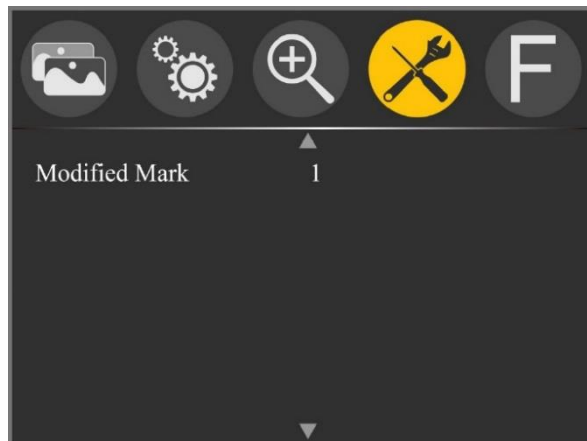
Use one of the ▼ button to enter the Settings menu. Press ▲ or ▼ to navigate through the settings. Once the desired setting is highlighted, use the ◀ or ▶ buttons to navigate through the sub-menu functions. Press the MENU button to activate the function.



Menu item:	Description:
Nine Grid	Open it to set the image Nine Grid and select ◀ or ▶ button to choose an image, and then press ▼ or ▲ button to zoom the image to full screen, press MENU button to exit.
Zoom	Image zoom settings; Off, 4x, 9x, 16x
Zoom Mode	Mode Off, Mode1, Mode2.
Zoom All	Image Zoom. Use ◀ or ▶ to zoom. (0~100).
L/R Zoom	Use ◀ or ▶, to adjust the proportion of the image Left and Right to Zoom In or Zoom Out. (0~100).
U/D Zoom	Use ◀ or ▶, to adjust the proportion of the image Up and Down to Zoom In or Zoom Out. (0~100).
Scan Mode	Under Scan, Over Scan.

Function menu

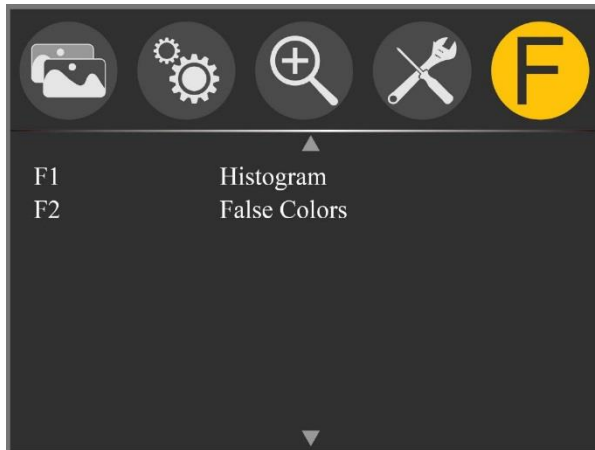
Use one of the ▼ button to enter the Function menu. Press ▲ or ▼ to navigate through the settings. Once the desired setting is highlighted, use the ◀ or ▶ buttons to navigate through the sub-menu functions. Press the MENU button to activate the function.



Menu Item:	Description:
Center Marker	To set center mark (cross mark) display.
Safe Frames	To select screen markers; 96%, 93%, 90%, 85%, 80%, 2.35:1 or Off.
Image Freeze	To capture the current picture.
Image Flip	Flip the image, horizontally, vertically or in both directions.
Check Field	Color overlay; Red, Green, Blue, Mono or Off.
Anamorphic	Restore the real proportions of the scene; Off, 1.3x, 2.0x, 2.0x MAG
Histogram	Turns on the Histogram in the right corner of the screen. To check the picture brightness.
False Colors	Turns on False Colors to show scene lighting levels.
Focus Assist	Turns on the Focus Assist function that makes it easier to focus.
Peaking Color	The edge line color can be chosen according to the situation; Red, Green and Blue
Exposure (Zebras)	Over Exposure can be turned On and Off. Shows red stripes to check what is overexposed. Settings from 1~100 IRE
Embedded Audio	The audio meter is green, and will turn yellow when it exceeds -20dB, and turn red when it exceeds -9dB.
Ratio Marker	Image display ratio marker; Off, 4:3, 13:9, 14:9, 15:9, 16:9, 1.85:1, 2.35:1
Marker Color	To select the above high contrast mark color according to different image; Red, Green, Blue, Black, White.
Mark Width	To select the above mark color display width; 1~7
Modified Marker	Adjust the brightness of the image outside tag line to highlight the inside tag line of the image; 0~6

F Custom Buttons Setting

Use one of the F1 button to enter the Function buttons menu. Press ▲ or ▼ to navigate through the settings. Once the desired setting is highlighted, use the ◀ or ▶ buttons to navigate through the sub-menu functions. Press the MENU button to activate the function to save it under the specific function button.



Menu Item:	Description:
F1 F2	To set the 2 shortcut custom buttons on the front panel; Center Marker, Safe Frames, Check Field, Focus Assist, Aspect Ratio, Image Flip, Image Freeze, Histogram, False Colors, Over Exposure, Embedded Audio, Nine Grid, Zoom, Anamorphic
For example:	When in menu “ F ”, press ▲ button and then select F1 by pressing ◀ or ▶ button to pop-up function items and press ▲ or ▼ to select one of them, such as “Focus Assist”, and press MENU button to confirm. So when you exit menu, you could press F1 directly on the front of panel to turn on “Focus Assist” function. Same settings for F2

7. Technical Specifications

Panel Size	7.0 inch
Panel Type	IPS LCD
Resolution	1920x1200
Backlight	LED
Dot Pitch	0.07875 (W) x 0.07875 (H) mm
Aspect Ratio	16:10
Brightness	450cd/m2
Contrast Ratio	1200:1
Viewing Angle	80°/80° (Left/Right) 80°/80° (Up/Down)
Input Signal	HDMI
Output Signal	HDMI
HDMI Support Format	480i /480p /576i /576p 720p (60/59.94/50/30/29/25/24/23.98) 1080i (60/59.94/50) 1080p (60/59.94/50/30/29.97/25/24/24sF/23.98/23.98sF) 4K UHD 3840x2160p (30/29.97/25/24/23.98 Hz) 4096x2160p (24 Hz)
Audio	Stereo 3.5mm headphone, speaker
Input Voltage	DC:7.4~24V
Power Consumption	≤8W
Unit Size (LxHxD)	180 x 120 x 18 mm 7.09 x 4.72 x 0.71 inch
Unit Weight	320/350g (with F970 battery plate) 11.29/12.35 oz
Installation Method	1/4-20 thread points (top, bottom)
Working Temperature	-20°C~55°C / -4°F~131°F
Storage Temperature	-30°C~65°C / -22°F~149°F

8. Trouble shooting

Problem 1. Only black and white or monochrome picture:

- ① Check saturation, brightness & contrast adjustment.
- ② Check if "Check Field" is in black, white or monochrome image or other condition.

Problem 2. No Image after switching on power

- ① Check if signal cable connections are in good condition and whether the monitor is synchronized with the input signal.
- ② Check signal cable connection and make sure to use the standard adapter to connect the monitor. If power is supplied by battery, please check if the battery is fully charged.

3. No sound

- ① Check Volume control; rotate the volume button, and try to increase the volume.
- ② Check the HDMI input and ensure there is HDMI signal.

If other issues with the device may occur, please contact us.

AVtec

LCD Monitors

<http://www.AVtec.tv>