JVC

# 4K-compatible HD studio monitors

## DT-G17U
## DT-G21U
## DT-G24U
## DT-G27U

- 4K compatibility
- Zero latency mode
- Built-in 3D LUT auto calibration
- Remote control via web browser

DT-G17U DT-G21U DT-G24U DT-G27U

# KEY FEATURES

## Full HD LCD panels

DT-G series studio monitors adopt 17.3" / 21.5" / 23.8" / 27" 1920×1080 pixel full HD resolution LCD panels with LED backlighting.

## Supports 4K-HDMI and 3G-SDI

DT-G series monitors support up to 4K60p HDMI, which can be downsample to FHD display, and support 3G-SDI (SMPTE 425M) including Level A&B; 2K-SDI (2048x1080p) can also downsample to FHD display.

## New zero latency mode

Almost zero latency* available via a special image processing mode for lip-sync monitoring.

**Only a few lines' delay, please note that in this mode, no picture correction is possible.*

## Selectable gamma preset

Support gamma preset selection from: 1.8, 2.2, 2.4 and 2.6.

## Webserver IP remote control

Connect the monitor in LAN and read the monitor status or set menu by computer web browser, which enables studio administrators to control all the monitors remotely.

## TSL UMD and User editable video title

Support UMD controlling input via RS485 port, compatible with TSL 3.1 and 4.0 UMD protocol. Users can also edit a fixed video title for the monitor, and the UMD/title letter size, color, background are selectable.

## On-screen TALLY display

Display on-screen TALLY signals of Red / Green / Yellow colours, and the on-screen TALLY display position up/down, blinking on/off are selectable.

## USB firmware upgradable

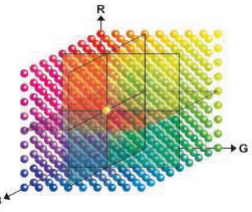
The rear USB port is for firmware upgrade. Users can download firmware to a USB stick, and operate monitor menu to upgrade, without PC or other adaptors.

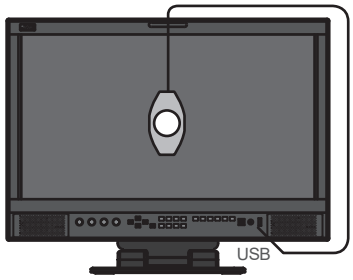
## Other features

- 10-bit processing
- SDI Timecode (LTC, VITC1&2) display
- AFD (Active Format Description) info display
- Frame/Field view selection
- R/G/B/Mono, False color, Zebra stripes display
- Focus assist display mode
- H/V delay, freeze frame display mode
- Safety area selection: 80%, 85%, 90%, 93%, 95%
- Scale marker: 4:3, 13:9, 14:9, 15:9, 1.85:1, 2.35:1
- Native scan, over scan and normal scan selection
- GPI control via RS485 port connection
- 3 User setting data storage
- 6 User definable function keys
- AntonBauer battery plate for field application (V-mount plate in an option)
- Rack mount included on DT-G17U

## 3DLUT auto color calibration

DT-U series monitors support 3DLUT 17x17x17 precise auto calibration, with built-in color generator and calibration software. They currently support X-rite i1 Display (special version) and will support JETI Specbos 1211 (near-future update). Probes directly pluged into monitor USB port to auto calibrate. The calibration process time is as short as 30 minutes.




Built-in 3DLUT calibration software, Directly connect color sensor probe to monitor USB port, and the monitor will calibrate itself automatically.

## Built-in De-log LUTs

DT-U series monitors have built-in De-log LUTs including JVC J-log1, ARRI Log-C, SONY S-log2, S-log3, Canon C-log, Panasonic V-log and RedLogFilm LUTs, to convert to ITU-Rec.709 directly.

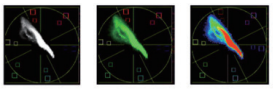
## User 3DLUT upload

DT-U series monitors support user 3DLUT cube files to upload by USB, which is convenient for color creation during post-production monitoring.

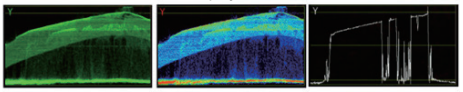
## Waveform/Vector/Histogram

Support waveform selection display (Y, Cb, Cr, R, G, B), and single lines selection mode; support vector scope and R/G/B/Y histogram display, with multiple display position, size and color selection.

Y, Cb, Cr, R, G, B selection display



Vector scope with color selection

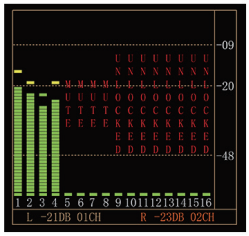


Color selection and single line mode

R/G/B/Y histogram

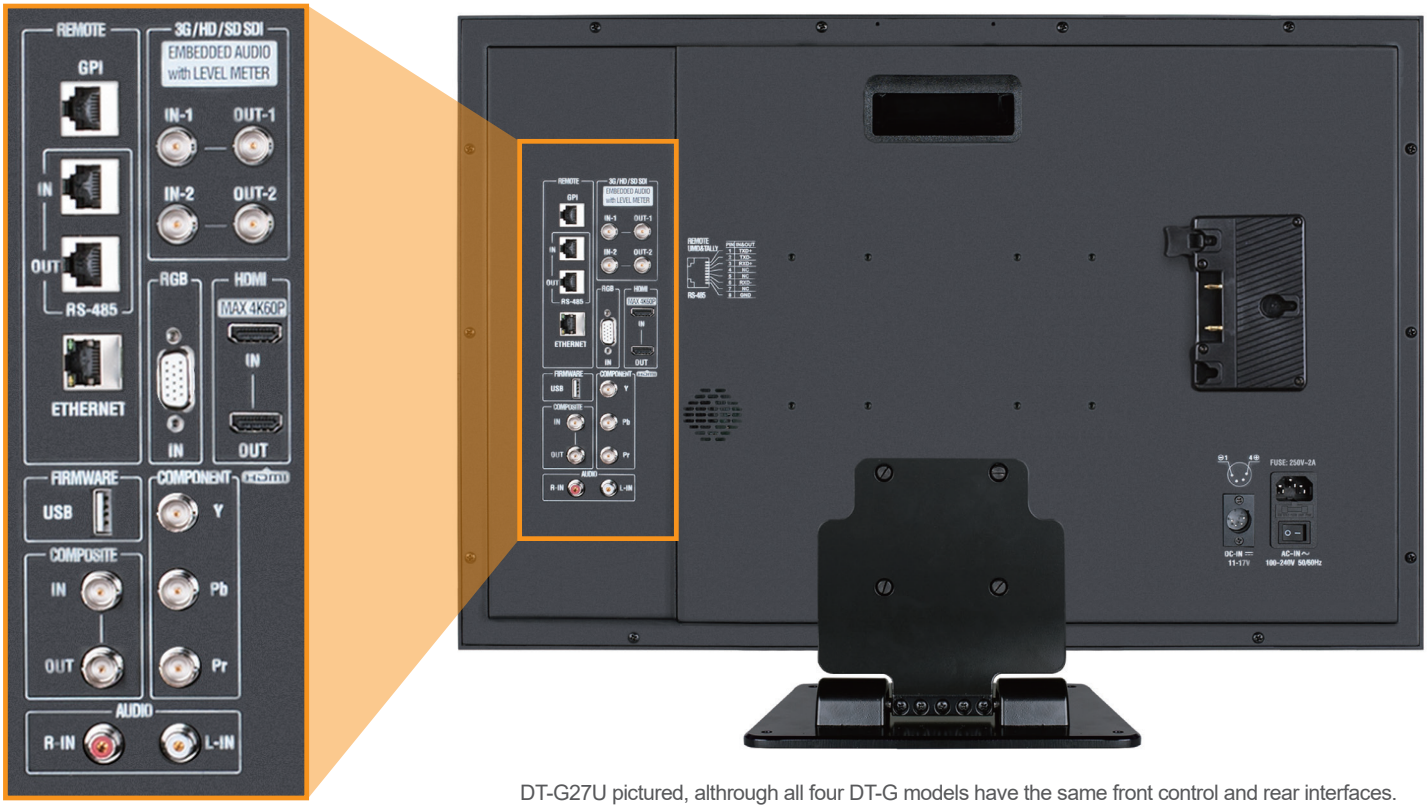
## 16-ch audio level meters with alert and output selection

Support de-embed audio from SDI and HDMI, and display 16-ch audio level meters, with audio abnormal alerts info displayed on each audio bar. You can also select any 2 channels audio to output via 3.5mm socket or speakers. The audio meter pattern position can be selected from one of four corners, and you can select to display only 2 channels, 8 channels, and full 16 channels. Also scale markers, alert info, and translucent of the audio meter pattern are selectable.



## Front Controls


## Rear Terminals




DT-G27U pictured, although all four DT-G models have the same front control and rear interfaces.

## Compatible video formats

| | | |
|---|---|---|
| **CVBS** | | NTSC / PAL |
| **Y/Pb/Pr** | | 1080i (50 / 60), 720p (50 / 60), 480i, 480p, 576i, 576p |
| **RGB** | | 640×480, 800×600, 1024×768, 1152×864, 1280×768, 1280×960, 1280×1024, 1600×1200 |
| **HDMI** | | 4096×2160p (60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98) |
| | | 3840×2160p (60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98) |
| | | 1080p (60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98) |
| | | 1080i (60 / 59.94 / 50) |
| | | 720p (60 / 59.94 / 50) |
| | | 480i / 576i / 480p / 576p |
| **SDI** | SMPTE 2048-2 | 2048×1080p (23.98 / 24 / 25 / 29.97 / 30 / 50 / 59.94 / 60) |
| | | 2048×1080i (50 / 59.94 / 60) |
| | SMPTE-425M | 1080p (60 / 59.94 / 50) |
| | SMPTE-274M | 1080i (60 / 59.94 / 50); 1080p (30 / 29.97 / 25 / 24 / 23.98) |
| | SMPTE-RP211 | 1080psf (30 / 29.97 / 25 / 24 / 23.98) |
| | SMPTE-296M | 720p (60 / 59.94 / 50) |
| | SMPTE-125M | 480i (59.94) |
| | ITU-R BT.656 | 576i (50) |

## Specifications

| MODEL | DT-G17U | DT-G21U | DT-G24U | DT-G27U |
|---|---|---|---|---|
| **LCD Display** | | | | |
| Size | 17.3 inches wide format | 21.5 inches wide format | 23.8 inches wide format | 27 inches wide format |
| Display area | 381.89mm×241.81mm | 476.64mm×268.11mm | 527.04mm×296.46mm | 598mm×336mm |
| Resolution | 1920×1080 | 1920×1080 | 1920×1080 | 1920×1080 |
| Color depth | 16.77 million | 16.77 million | 16.77 million | 16.77 million |
| Aspect ratio | 16:9 (4:3 adjustable) | 16:9 (4:3 adjustable) | 16:9 (4:3 adjustable) | 16:9 (4:3 adjustable) |
| Brightness | 300cd/m2 | 250cd/m2 | 250cd/m2 | 250cd/m2 |
| Contrast | 700:1 | 1000:1 | 1000:1 | 1000:1 |
| Viewing Angle | 160°(H) / 160°(V) | 178°(H) / 178°(V) | 178°(H) / 178°(V) | 178°(H) / 178°(V) |
| Surface treatment | Non-glass | Non-glass | Non-glass | Non-glass |
| Backlighting | LED | LED | LED | LED |
| **Input Signal** | | | | |
| SDI input | 2K/3G/HD/SD-SDI ×2 | 2K/3G/HD/SD-SDI ×2 | 2K/3G/HD/SD-SDI ×2 | 2K/3G/HD/SD-SDI ×2 |
| HDMI input | HDMI 2.0 ×1 | HDMI 2.0 ×1 | HDMI 2.0 ×1 | HDMI 2.0 ×1 |
| Component input | Y×1; Pb×1; Pr×1 | Y×1; Pb×1; Pr×1 | Y×1; Pb×1; Pr×1 | Y×1; Pb×1; Pr×1 |
| Composite input | CVBS ×1 | CVBS ×1 | CVBS ×1 | CVBS ×1 |
| RGB input | RGB ×1 | RGB ×1 | RGB ×1 | RGB ×1 |
| Audio input | RCA L×1; R×1 | RCA L×1; R×1 | RCA L×1; R×1 | RCA L×1; R×1 |
| UMD input | RS485 ×1 | RS485 ×1 | RS485 ×1 | RS485 ×1 |
| GPI input | RS485 ×1 | RS485 ×1 | RS485 ×1 | RS485 ×1 |
| LAN input | RJ45 ×1 | RJ45 ×1 | RJ45 ×1 | RJ45 ×1 |
| USB input | USB-A Front ×1; Rear ×1 | USB-A Front ×1; Rear ×1 | USB-A Front ×1; Rear ×1 | USB-A Front ×1; Rear ×1 |
| **Output Signal** | | | | |
| SDI loop output | 2K/3G/HD/SD-SDI ×2 | 2K/3G/HD/SD-SDI ×2 | 2K/3G/HD/SD-SDI ×2 | 2K/3G/HD/SD-SDI ×2 |
| HDMI loop output | HDMI 2.0 ×1 | HDMI 2.0 ×1 | HDMI 2.0 ×1 | HDMI 2.0 ×1 |
| Composite loop output | CVBS ×1 | CVBS ×1 | CVBS ×1 | CVBS ×1 |
| Audio output | 3.5mm ×1; Speaker ×2 | 3.5mm ×1; Speaker ×2 | 3.5mm ×1; Speaker ×2 | 3.5mm ×1; Speaker ×2 |
| UMD output | RS485 ×1 | RS485 ×1 | RS485 ×1 | RS485 ×1 |
| **General** | | | | |
| AC Input | AC 100-240V 50/60Hz | AC 100-240V 50/60Hz | AC 100-240V 50/60Hz | AC 100-240V 50/60Hz |
| DC Input | DC / battery 11V-17V | DC / battery 11V-17V | DC / battery 11V-17V | DC / battery 11V-17V |
| Power consumption | Max 34.1W | Max 36.3W | Max 38.5W | Max 39.6W |
| Working temperature | 0°C - +40°C | 0°C - +40°C | 0°C - +40°C | 0°C - +40°C |
| Working humidity | 10% - 90% | 10% - 90% | 10% - 90% | 10% - 90% |
| Storage temperature | −15°C - +60°C | −15°C - +60°C | −15°C - +60°C | −15°C - +60°C |
| Storage humidity | 10% - 90% | 10% - 90% | 10% - 90% | 10% - 90% |
| VESA standard | 100×100mm | 100×100mm | 100×100mm | 100×100mm; 200×100mm |
| Dimensions | 419.2×310.4×55.8mm | 522.3×357.5×55.8mm | 572.7×386.2×55.8mm | 643.5×426×55.8mm |
| Net weight | 3.95 Kg | 5.8 Kg | 6.8 Kg | 7.95 Kg |

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