Marshall

FEATURED
PRODUCTS

SPRING 2019

CV380-CS

CV420-CS

Marshall

Marshall Broadcast & Pro AV

www.marshall-usa.com

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TRUE4K
4096x2160p60

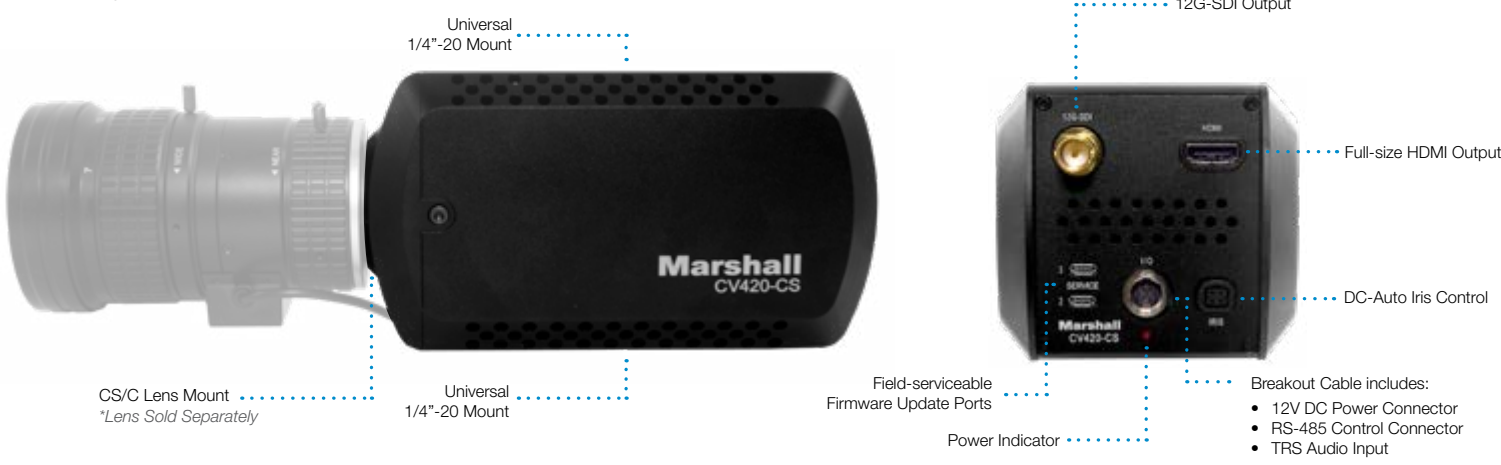## Marshall TRUE 4K Compact Cameras

The New Marshall CV420-CS and CV380-CS TRUE 4K Cameras pack tremendous power and performance into a compact package, delivering up to True 4K 4096x2160p at up to 60fps. These flagship cameras offer the greatest performance and feature sets of the Marshall compact camera line.

The CV420-CS is built around a 12.4-Megapixel, 1/1.7-inch sensor delivering ultra-crisp, clear true 4K resolution in 4096x2160p at 60fps. The CV420-CS contains a single 12G (BNC) and a simultaneous HDMI 2.0 output covering a variety of 4K/UHD/HD applications.

The CV380-CS is built around an 8.5-Megapixel, 1/2.5-inch sensor that delivers ultra-crisp, clear true 4K resolution in 4096x2160p at up to 30 fps. The CV380-CS contains a single 6G (BNC) output with 6G/3G/HD-SDI capability and a simultaneous HDMI output.

The CV420 and CV380 are versatile and powerful camera solutions in an easy to understand design. Remote adjust and match control is delivered via RS485 (Visca) or OSD menu joystick on breakout-cable. A wide range of picture adjustment settings are available such as paint (red/blue), white balance, pedestal (blacks), white clip, exposure, gamma, gain, and more.

Marshall CV420-CS
Compact 4K60/UHD60/HD Camera

- 12G-SDI Output
- Universal 1/4"-20 Mount
- Full-size HDMI Output
- DC-Auto Iris Control
- CS/C Lens Mount *Lens Sold Separately*
- Universal 1/4"-20 Mount
- Field-serviceable Firmware Update Ports
- Power Indicator
- Breakout Cable includes:
  - 12V DC Power Connector
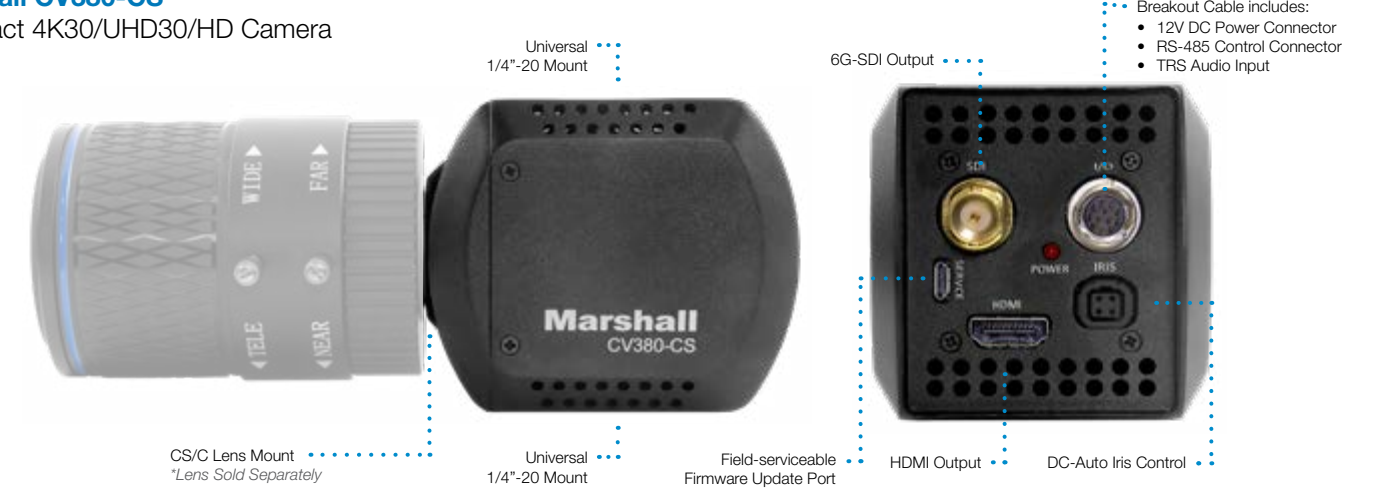 - RS-485 Control Connector
  - TRS Audio Input

TRUE4K ULTRAHD 12GSDI HDMI LENS OPTIONS RS-485 CONTROL

- 12G-SDI & HDMI 2.0 outputs
- 12 Megapixel (1/1.7") Sony sensor (4:2:2)
- Flexible CS/C-lens mount (adapters for EOS & others)
- True-4K: 4096 x 2160p @ 60, 59.94, 50, 30, 29.97, 25, 24 fps
- Ultra-HD: 3840 x 2160p @ 60, 59.94, 50, 30, 29.97, 25, 24 fps
- HD (Progressive): 1080p / 720p @ 60, 59.94, 50, 30, 29.97, 25, 24 fps

- HD (Interlaced): 1920 x 1080i @ 60, 59.94, 50 fps
- TRS stereo audio inputs (mic & line level)
- Remote adjust through RS485 (Visca) or OSD menu joystick
- Wide range of picture adjustment settings including paint (red/blue), white balance, gain control, pedestal (blacks), exposure, gamma and more

Marshall CV380-CS
Compact 4K30/UHD30/HD Camera

- Universal 1/4"-20 Mount
- 6G-SDI Output
- Breakout Cable includes:
  - 12V DC Power Connector
  - RS-485 Control Connector
  - TRS Audio Input
- CS/C Lens Mount *Lens Sold Separately*
- Universal 1/4"-20 Mount
- Field-serviceable Firmware Update Port
- HDMI Output
- DC-Auto Iris Control

TRUE4K ULTRAHD 6GSDI HDMI LENS OPTIONS RS-485 CONTROL

- 6G-SDI (single BNC) & HDMI 1.4 outputs
- 8.5 Megapixel (1/2.5") sensor (4:2:2)
- CS/C-mount for Varifocal or Fixed lenses
- True-4K: 4096 x 2160p @ 30, 29.97, 25, 24, 23.98 fps
- Ultra-HD: 3840 x 2160p @ 30, 29.97, 25, 24, 23.98 fps
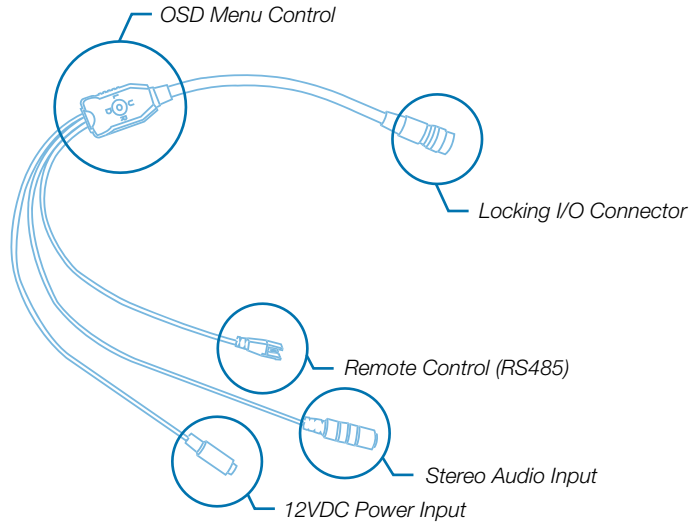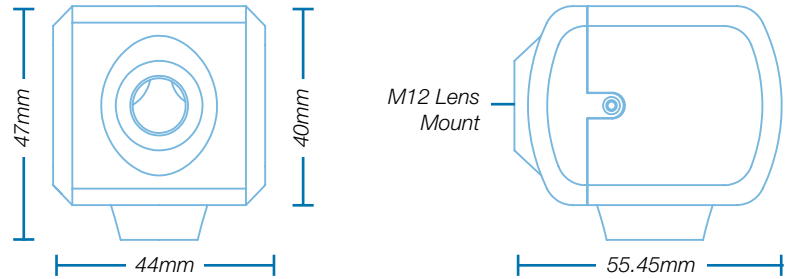- HD (Progressive): 1080p / 720p @ 60, 59.94, 50, 30, 29.97, 25, 24, 23.98 fps

- HD (Interlaced): 1920 x 1080i @ 60, 59.94, 50 fps
- TRS stereo audio inputs (mic & line level)
- Remote adjust and match through RS485 (Visca) or OSD menu joystick
- Wide range of broadcast picture adjustment settings

Marshall

Meet the New Generation of Marshall Miniature and Compact Cameras

The completely redesigned next generation CV500 and CV300 HD cameras offer a true level-up in video performance, and are designed around larger HD sensors with 20% more pixels and greater sensitivity.
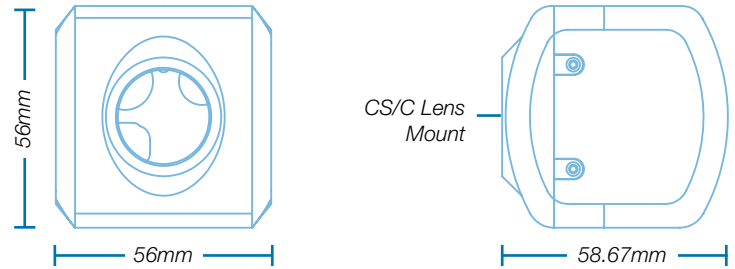
Cutting-edge video processors refine the signal into ultra-crisp images with enhanced true colors, and broadcast-quality components deliver ultra-low noise and clean eye patterns while adhering to strict SMPTE standards.

Finished with a distinctively small, ergonomically-designed camera body that is cut from a solid block of aluminum alloy helps ensure durability, and locking I/O connections with added side protection helps keep connections secure, even in rough environments.

OSD Menu Control

Locking I/O Connector

Remote Control (RS485)

Stereo Audio Input

12VDC Power Input

New HIROSE I/O Breakaway Cables for CV500 and CV300 Series Cameras

The new CV500 and CV300 Series cameras Implement new locking I/O connections with added side protection to rear panel provides for more secure connections in rough environments.

47mm
40mm
44mm

M12 Lens Mount

55.45mm

56mm
56mm

CS/C Lens Mount

58.67mm

Marshall CV503

Full-size 3G-SDI Output

3G-SDI
I/O
SERVICE

Locking HIROSE I/O Breakaway Cable

Field-serviceable Firmware Update Ports

Marshall CV506

Full-size 3G-SDI Output

3G-SDI
I/O
SERVICE
HDMI

Full-size HDMI Output

Locking HIROSE I/O Breakaway Cable

Field-serviceable Firmware Update Ports

3GSDI | HDMI | LENS OPTIONS | RS-485 CONTROL | TRS AUDIO

Marshall CV344

Full-size 3G-SDI Output

3G-SDI
I/O
SERVICE
IRIS

Locking HIROSE I/O Breakaway Cable

DC Auto Iris Control

Field-serviceable Firmware Update Ports

Marshall CV346

Full-size 3G-SDI Output

3G-SDI
I/O
HDMI
SERVICE
IRIS

Full-size HDMI Output

Locking HIROSE I/O Breakaway Cable

DC Auto Iris Control

Field-serviceable Firmware Update Ports

3GSDI | HDMI | LENS OPTIONS | RS-485 CONTROL | TRS AUDIO

Marshall CV503/506
Miniature HD Camera

- » 1/2.86 – inch 2.5MP (10bit 4:2:2)
- » Full-sized 3G/HD-SDI (BNC) and HDMI (CV506) Outputs
- » Interchangeable M12 lens flexibility (fixed prime or varifocal)
- » Durable design, ultra-small footprint, powerful performance
- » Progressive (HD): 1920x1080p/720p and Interlaced (HD): 1920x1080i resolutions

- » Framerates: 23.98, 24, 25, 29.97, 30, 50, 59.94, 60fps (all-in-one model)
- » Adjustable Pedestal, White Clip, Exposure, White Balance, Gain, Gamma, Sharpness
- » Remote setting adjustments via RCP and Camera Control Software
- » Audio Mic or Line-level (stereo) feature added on all models
- » Ultra-low light sensitivity in color with ability to see IR wavelengths

  » *For the latest compatible lens listings, visit www.marshall-usa.com*

Marshall CV343/346
Compact HD Camera

- » 1/2.86 – inch 2.5MP (10bit 4:2:2)
- » Full-sized 3G/HD-SDI (BNC) and HDMI (CV346) Outputs
- » Interchangeable CS/C mount (auto-iris) lens flexibility (fixed prime or varifocal)
- » Durable design, compact footprint, powerful performance
- » Progressive (HD): 1920x1080p/720p and Interlaced (HD): 1920x1080i resolutions
- » Framerates: 23.98, 24, 25, 29.97, 30, 50, 59.94, 60fps (all-in-one model)

- » Adjustable Pedestal, White Clip, Exposure, White Balance, Gain, Gamma, Sharpness
- » Remote setting adjustments via RCP and Control Software
- » Audio Mic or Line-level (stereo) feature added on all models
- » Ultra-low light sensitivity in color with ability to see IR wavelengths

  » *For the latest compatible lens listings, visit www.marshall-usa.com*

Marshall

Award-winning Versatility, Durability, and Performance

Marshall Weatherproof Cameras have redefined outdoor live sports coverage.

The **Marshall CV502-WP** and **CV225** Weatherproof Cameras boast weatherproof IP67 rated enclosures, making them resistant to rain, dirt, and dust, and can even be fully submerged in water at a depth of up to one meter for short periods of time, delivering clear underwater footage for a variety of applications.

Marshall Weatherproof Cameras are remotely controllable over RS-485 and can be adjusted for a number of broadcast settings including gain, gamma, brightness, and shutter. From collegiate swimming to professional basketball and every sport in between, the CV502-WPMB/WPM delivers viewing content that brings you right up close to the action, seeing details that were impossible to view before.

Marshall CV350-10X
Compact 10X Zoom Block Camera

The CV350-10X is a compact, Full-HD broadcast camera that has a 10X optical zoom (4.7~47mm focal range) and a 12X digital zoom (total range of 120X). It has outputs in HDMI Type-A and 3G/HD-SDI (SMPTE 424M/292) outputs, and has an OSD joystick on rear panel and can also be controlled through IR remote and RS485 (Visca) controls.

- » 2.5-Megapixel HD sensor
- » 10X Zoom block, focal length 4.7~47mm (F1.6~F3.0), AOV – 58° (wide) to 6.4° (tele)
- » 3G/HDSDI and HDMI outputs with IR remote, RS485 (Visca) & OSD joystick
- » CV350-10XB: 1080p59.94/29.97, 1080i59.94, 720p59.94/29.97fps
- » CV350-10X: 1080p50/60, 1080i50/60, 720p50/60/25/30fps

3GSDI   **HDMI**   **RS-485 CONTROL**

Marshall CV502-WP
Miniature Weatherproof Camera

The CV502-WP is weatherproof rated IP67, ensuring water protection when submerged up to 1m and total protection against dust, dirt, and sand. The CV502-WP has a 2.5-Megapixel, 1/3-inch sensor for crisp, clear video, and it can be controlled over OSD menu joystick, RS-485 (Pelco/Visca), and the Marshall CV-RCP-V2.

- » Professional broadcast HD sensor
- » Full-HD up to 1080p @ 50/59.94 fps (3G)
- » All-Weather IP67-rated housing
- » Easily changeable M12 lenses
- » 3G/HD-SDI (BNC) connections
- » Remote adjust and match via RS485 (Visca)
- » **Winner of TVTechnology 2018 Best of Show Award**

3GSDI   **LENS OPTIONS**   **RS-485 CONTROL**   **WEATHER PROOF**

2018 BEST of SHOW TVTechnology

HIGH SPEED **120** FPS

Marshall CV506-H12
Miniature 1080p 120fps Camera

The Marshall CV506-H12 high-speed camera can capture footage at up to 120 frames per second, while retaining HD resolution and a full range of adjustment settings — all packaged into a miniature, sturdy housing. The CV506-H12 is built for capturing high-speed action for detailed, high-definition slow-motion video.

- » HDMI 2.0 output
- » 2-Megapixel (1/2.8") Sony Exmor sensor
- » Interchangeable M12-mount lenses (comes with 3.6mm)
- » Progressive HD: 1080p/720p outputs 120, 100, 60, 50, 30, 25 fps
- » Remote adjust & match via RS485 (Visca)

HI-SPEED 120 FPS

HI-SPEED 120 FPS   **HDMI**   **LENS OPTIONS**   **RS-485 CONTROL**

Marshall CV225
Full-HD Weatherproof Lipstick Camera

The CV225 Lipstick Camera captures stunning Full-HD video in a versatile, durable, and discrete package. The CV225 utilizes the latest sensor technology in a compact and sleek weatherproof design, and is ideal for professional broadcast television applications including professional sporting events, reality television, live music events, broadcast trucks, weather vehicles, and house of worship installations.

- » 2.5-Megapixel HD sensor with 3.7mm lens (72° AOV)
- » Weatherproof IP67 rated body with 10' (3m) breakout cable
- » 3G/HD-SDI output with compact & lightweight body
- » Resolutions: 1920x1080p, 1920x1080i, 1280x720p
- » Fast frame rates (determined by model):
  - » CV225-MB outputs 59.94/29.97 fps
  - » CV225-M inputs/outputs 50/60/25/30 fps
- » Remote adjust & match via RS485 (Visca)

3GSDI   **RS-485 CONTROL**   **WEATHER PROOF**

ULTIMATE CAMERA **CONTROL**

Marshall CV-RCP-V2
Touchscreen RCP Camera Controller

The CV-RCP-V2 allows you to control up to seven broadcast cameras at a distance of up to 300m (1,000 foot) over common XLR cable, and it features a new intuitive touchscreen control with fine-tune adjustment dials. With the CV-RCP-V2, you can remote adjust, paint, and match Marshall Cameras without ever having to leave the convenience of a production room or broadcast truck.

- » 5-inch TFT LCD Touchscreen (800x480) with fine-tune adjustment knobs
- » Adjust and match up to seven different cameras, individually or all at once
- » 3-pin XLR cable for cable-runs at distances of up to 300 meters (1,000 ft)
- » Adjustments made on camera without OSD Menu appearing on video stream
- » Onboard or external USB memory for global and individual saved presets

TFT TOUCHSCREEN   **RS-485 CONTROL**

VERSATILE PTZ CAMERAS

Marshall CV612HT-4K
4K HDBaseT™ PTZ Camera

The Marshall CV612HT-4KW/4K Camera is built around a 4K/UHD 9-Megapixel 1/2.3-inch sensor with durable and smooth simultaneous Pan-Tilt-Zoom operation. One Cat5e/6 cable carries PoE (48V), uncompressed 4K video, and command control to camera. Remote operation and control using common protocols make it compatible with most integrated control systems.

- » Captures up to 3840x2160p at 29.97/25 fps
- » Enables one cable to camera setup via HDBaseT™
- » Up to 12X optical zoom with 12X digital zoom
- » 74° panoramic angle of view (AOV) at 3.9mm
- » 340° pan, 120° tilt with variable transition speeds
- » 128 PTZ preset locations
- » Simultaneous HDBaseT™ and HDMI outputs
- » Supports RS422/RS232 interfaces
- » Compatible with most integrated video systems via VISCA/PELCO
- » Built-in tally light
- » Mountable via table, wall or ceiling
- » Available in black and white models

ULTRA HD | HDMI | HDBT | RS-232 CONTROL

1. HDBaseT carries uncompressed video, power and control
2. HDMI output
3. RS-232 input/output with loopthrough
4. RS-422 interface

Marshall CV620
Full-HD PTZ Camera

The Marshall CV620-WH2/BK2 is a high-definition PTZ camera that can be controlled via RS232 over Cat cable, or RS422 over twisted pair and uses common protocols. The Marshall CV620 has versatile outputs, including HD-SDI (3G) and HDMI (DVI) and many broadcast adjustable settings, such as white balance, exposure, iris, gamma, black level, and more for tremendous flexibility of use.

- » Captures up to 1920x1080p at 59.94/60/50 fps
- » Up to 20X optical/12X digital zoom
- » 340° pan, 120° tilt with variable transition speeds
- » HD-SDI (3G) and DVI (HDMI) outputs
- » Supports RS422/RS232 Interfaces
- » Mountable via table, wall or ceiling
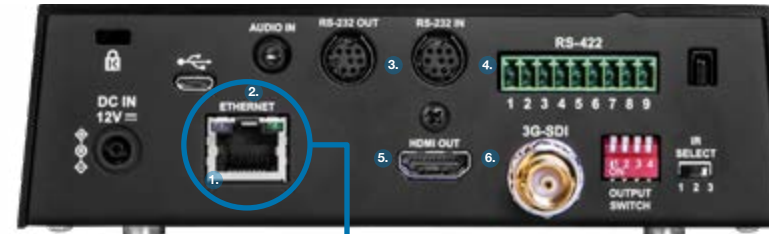- » Available in black and white models

3GSDI | HDMI | RS-232 CONTROL

1. HD-SDI (3G) output
2. DVI (HDMI) output
3. RS 422 interface
4. RS232 input/output with loopthrough

Marshall CV620-IP
Pan-Tilt-Zoom IP Camera

The Marshall CV620-IP Broadcast ProAV PTZ Camera is built around a professional grade 2-Megapixel 1/2.8-inch sensor with a smooth 20X Optical Zoom (4.7~94mm) block. It has versatile outputs such as 3G/HD-SDI, HDMI Type-A, and IP (H.264), which allows for one Ethernet cable to contain compressed H.264 Video, PoE (48V) and IP Control.

- » Captures up to 1920x1080p Full-HD video at 59.94/60/50 fps
- » Supports H.264 encoding, PoE, and control over ethernet
- » 3GSDI and HDMI outputs
- » Up to 20X optical/12X digital zoom
- » 340° pan, 120° tilt with variable transition speeds
- » Supports RS422/RS232 control interfaces
- » Mountable via table, wall, or ceiling
- » Available in white and black models

3GSDI | HDMI | IP H.264 STREAMING | PoE | RS-232 CONTROL

CV620-IP Connections:
1. Ethernet connection carries video, power and control
2. Audio input for localized sound sources
3. RS-232 input/output with loopthrough
4. RS-422 interface
5. HDMI output
6. 3GSDI output

NEW!

Upgrade to CV620-NDI for use with NDI|HX networks

Upgrade the CV620-IP to become the CV620-NDI, available as a source for all compatible systems, devices, and software on NDI networks.

» Visit www.marshall-usa.com to find out more about the CV620-NDI.

Marshall VS-PTC-IP
PTZ Camera Controller

The Marshall VS-PTC-IP PTZ Camera Controller is designed to operate seamlessly across multiple camera protocols on a single network, operating RS232/RS422/RS485 and IP, as well as ONVIF, and VISCA over IP.

Used for live event production and content creation, the VS-PTC-IP offers detailed operation through a high-quality PTZ joystick, professional zoom rocker, and individual fine-tune adjustment knobs for iris, white balance, exposure, red/blue, shutter speed, focus, pan/tilt speed, and zoom speed.

- » Simultaneous RS232, RS422 & IP control over ethernet cable
- » Visca, Pelco-D, Pelco-P, Onvif, Visca over IP
- » Control up to 14 cameras with Group-A and Group-B access over Visca
- » Tri-synchronous joystick control for simultaneous pan, tilt, and zoom
- » Zoom rocker for easy two way zoom control
- » Precision finger dials for red/blue, PTZ speeds, exposure, white balance, shutter, iris
- » 6-way joystick control
- » Power over AC or PoE

PoE | RS-232 CONTROL

Marshall

HD ANALYTICS & DISPLAY MONITORS

Marshall M-LYNX-702W
Dual 7" Rackmount Monitor with Built-in Analytics Display

The M-LYNX-702W provides maximum versatility with multiple inputs and waveform and vectorscope displays. All functions are available through front panel buttons as well as remote control via an RJ-45 Ethernet port.

» Dual 1200x800 displays
» Supports 3G-SDI, HDMI, composite and component inputs with loop-through
» Built-in waveform and vectorscope
» Selectable markers, 1:1 pixel mapping, over scan and H/V delay modes

» Audio de-embedding and monitoring via front panel headphone jacks
» Tri-color tally

3GSDI | HDMI | 3RU

Marshall M-LYNX-702
Dual 7" Rackmount Monitor

The M-LYNX-702 Dual 7" LCD display is a feature-packed, economical solution perfect for fly-packs, control rooms, routing rooms, and countless other video system applications. It has multiple video inputs including HDMI and 3GSDI with loop-through.

» Dual 1024x600 displays
» Supports 3G-SDI, HDMI, composite and component inputs with loop-through
» Selectable markers, 1:1 pixel mapping, over scan, and H/V delay modes

» Audio de-embedding and monitoring via front panel headphone jacks
» Tri-color tally

3GSDI | HDMI | 3RU

Marshall M-LYNX-503
Triple 5" Rackmount Monitor

The M-LYNX-503 is a Triple 5-inch Rackmountable Monitor with HDMI, 3G-SDI and Composite Inputs. The M-LYNX-503 is perfect for flypacks, control rooms, and news vans, where multiple video inputs need to be monitored and analyzed from a variety of sources.

» Triple 800x480 displays
» Supports 3G-SDI, HDMI, composite and component inputs with loop-through
» Selectable markers, 1:1 pixel mapping, over scan, and H/V delay modes

» Audio de-embedding and monitoring via front panel headphone jacks
» Tri-color tally

3GSDI | HDMI | 2RU

Marshall V-R241-4K
4K Master Confidence Monitor

The Marshall V-R241-4K offers stunning color performance with a wide variety of built-in features for professional video production, broadcast, and Pro AV applications.
The V-R241-4K has a beautiful 24-inch UHD panel with wide viewing angle that can display resolution inputs up to 4K (4096).

» UHD/4K support via 12G SDI, Quad 3G SDI, Interleaved 2SI, and HDMI 2.0
» Displays all HD, UHD, and 4K resolutions (4096 x 2160 letterbox) from 23.98 to 60 fps
» Color gamut presets for REC 709 and DCI P3 "Cinema"
» Supports HLG and SMPTE 2084 HDR
» Timecode display for embedded VITC and LTC (SDI input)
» Close Caption display for 708 and converted 608 captions (SDI Input)
» Built-in confidence speakers
» Audio bar displays 1-16 channels for SDI and HDMI inputs
» IMD (In Monitor Display) compatible with TSL or Image Video tally controls
» Waveform/Vector displays either full frame or line-by-line analysis (12G UHD/4K or 3G HD)
» Eco-friendly with extremely low power consumption in standby mode and remote wake

TRUE4K | 12GSDI | HDR | HDMI | ULTRA HD

Marshall AR-DM61-BT
Multi-Channel Digital Audio Monitor

The AR-DM61-BT is a powerful audio/video QC solution designed specifically for TV stations, broadcast trucks, transfer stations, and house of worship facilities. It features versatile audio analysis functions, flexible matrix conversion tools, and a pair of powerful speakers packed into 1 RU.

» 10" LCD Intuitive Touchscreen Panel displays up to 64 channels vertical or two detailed channels horizontal with LKFS bars and peak indicators
» Built-in live video preview monitor
» Accepts inputs from multiple signal types with matrix conversion
» High-powered stereo speakers (up to 100 dB output)
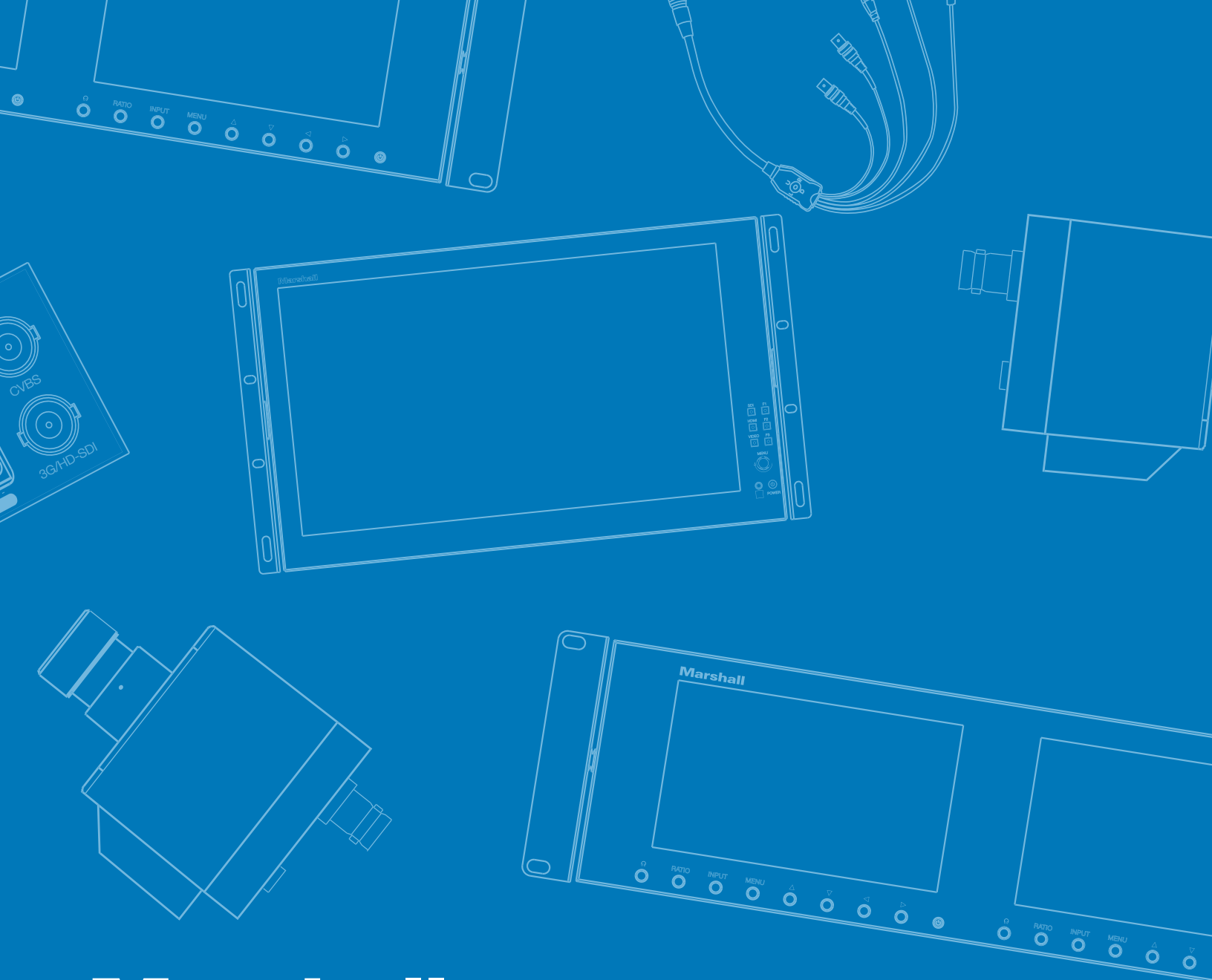
3GSDI | Dante | DOLBY | (((SUPER LOUD)))

Marshall AR-DM51-B
16-Channel Audio Monitor

The AR-DM51-B is a compact, lightweight audio monitor that can preview up to 8 stereo channels of audio. It has two extra powerful speakers (up to 100dB in volume) for accurate monitoring even in noisy environments, and the small built-in video screen allows for precise confidence monitoring during live broadcasts.

» SDI, HDMI, analog XLR, analog RCA inputs
» AES and analog RCA outputs (from selected input)
» Built-in live preview monitor (from HDMI or SDI source)
» One-button mix down for 5.1 and 7.1 to stereo
» Analog input converts to AES output
» Powerful 100dB speakers for noisy environments

3GSDI | HDMI | (((SUPER LOUD)))

Marshall

Trusted by Broadcasters for Over 30 Years

For over 30 years, **Marshall Electronics** has supplied the broadcast video industry with award-winning and revolutionary products that have helped shape the market to where it is today. The Marshall Broadcast product line has grown to meet the demands of professionals working in broadcast, film, news, and multimedia productions worldwide.

For more information and complete product listings, visit www.marshall-usa.com

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