

V SERIES

MODULAR LED VIDEO WALL PROCESSORS

V300 • V500 • V700 • V1400 • V2600

3U-26U

MODULAR CHASSIS

4K60

VIDEO PROCESSING

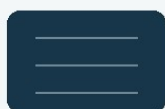
4:4:4

COLOR PROCESSING

MULTIFORMAT

CARD-BASED I/O

SCALABLE MODULAR PLATFORM

**V300**
3U**V500**
5U**V700**
7U**V1400**
14U**V2600**
26U

SWITCHING • SCALING • SPLICING • CREATIVE MAPPING • LED CONTROL

Command centers | Exhibition | Transport | Broadcast | Data operations

SECTION 01

DOCUMENT MAP

A first-workflow technical edition organized by product family, card ecosystem, chassis reference and the V2600 platform.

PAGE	CONTENT GROUP	WHAT TO FIND
03-06	Family overview	Product positioning, model portfolio, deployment paths and system-level functions
07-09	Card ecosystem	DVI, HDMI, DisplayPort, VGA, SDI and 10-port 1 GbE LED-data cards
10-13	Chassis panel maps	V300, V500, V700 and V1400 front/rear interfaces
14-17	Mechanical and comparison	Dimension drawings, capacity comparison, power and chassis data
18-24	V2600 platform	Overview, signal processing, controls, panel map, specifications and 26U chassis
25	Safety and document control	Electrical safety, source discrepancies, revision history and nomenclature correction

NOMENCLATURE APPLIED IN THIS EDITION

MODEL-NAME CORRECTION V2600 is used consistently as the product model throughout this English edition. The designation 26U is retained only as the V2600 chassis form factor.

READING THE SPECIFICATION

- V300, V500, V700 and V1400 use modular input cards and 10-port 1 GbE output cards that connect directly to Mooncell LED receiving cards.
- V2600 is documented separately because its source table defines high-density 2K/4K video input and output card interfaces rather than direct 1 GbE LED-data outputs.
- Card-dependent limits apply only when the stated card type is installed; chassis slot count does not by itself guarantee every listed interface combination.
- Where two statements in the source conflict, both are retained and the discrepancy is identified for project confirmation.

TERMINOLOGY Video Wall Processor is the standardized English product-category term used throughout this specification. LED data output denotes the 1 GbE signal path from an output card to LED receiving cards.

SECTION 02

PRODUCT FAMILY OVERVIEW

Modular video-wall processing platforms for multi-window, irregular and fine-pitch LED display applications.

The Mooncell V Series is a family of card-based modular video wall processors. The V300, V500, V700 and V1400 use 3U, 5U, 7U and 14U chassis respectively, accept both digital and analog video sources, process formats up to 4K @ 60 Hz, and provide direct 1 GbE LED-data outputs through modular output cards. The V2600 extends the family into a 26U high-density multiformat input/output platform.

5 CHASSIS OPTIONS V300 through V2600	200 MAX. 1 GbE OUTPUTS V1400 direct LED-data platform	130 MP MAX. LED CAPACITY V1400 at 8-bit output	4K60 MAX. VIDEO FORMAT Card-dependent input and output
--	---	--	--

VISUAL-PROCESSING POSITIONING

CAPABILITY	FAMILY VALUE
High-resolution processing	Supports 4K @ 60 Hz and lower formats, subject to the installed input/output card.
Color processing	4:4:4 color processing for detailed, natural large-screen reproduction.
Window composition	Arbitrary layer order, multi-window roaming and scaling across the configured canvas.
Creative LED geometry	Supports irregular-screen splicing and intelligent mapping for non-rectangular displays.
Modular scalability	Card count and chassis size can be selected around source count, output count and project topology.

TYPICAL APPLICATIONS

- Command and dispatch centers
- Conference and presentation centers
- Exhibition and display venues
- Data operations and monitoring centers
- Broadcast and television facilities
- Security surveillance, transport, education, medical teaching and administrative management

SECTION 03

MODEL PORTFOLIO

Select the chassis architecture by source density, layer count, LED-data output count and required video-output topology.

V300-V1400 DIRECT LED-DATA PLATFORMS

MODEL	CHASSIS	MAX. INPUT CHANNELS	1 GbE OUTPUTS	MAX. LAYERS	MAX. LED LOAD
V300	3U	36 × 2K / 24 × 4K30 / 6 × 4K60	40	32	26.0 MP
V500	5U	48 × 2K / 24 × 4K30 / 12 × 4K60	60	48	39.0 MP
V700	7U	80 × 2K / 40 × 4K30 / 20 × 4K60	100	80	65.0 MP
V1400	14U	160 × 2K / 80 × 4K30 / 40 × 4K60	200	160	130.0 MP

CAPACITY BASIS Each 1 GbE output is specified for up to 650,000 pixels at 8-bit output. The maximum device loads above equal the stated output count multiplied by that per-port value.

V2600 HIGH-DENSITY MULTIFORMAT PLATFORM

PARAMETER	V2600
Chassis	26U
Input-card interface capacity	Up to 72 × 4K interfaces or 288 × 2K interfaces
Output-card interface capacity	Up to 72 × 4K interfaces or 144 × 2K interfaces
Video I/O architecture	DVI, HDMI, DisplayPort, VGA, SDI, HDBaseT and optional control/audio cards as listed in the source
Maximum input/output format	3840 × 2160 @ 60 Hz

CONFIGURATION RULE Input and output quantities are interface-capacity values from the source table. Confirm the actual installed card mix, slot assignment and signal format for each delivered system.

SECTION 04

MODULAR ARCHITECTURE & SIGNAL FLOW

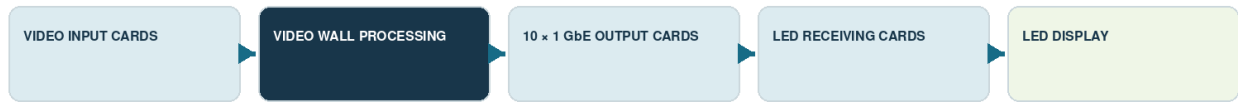
Separate the direct LED-data path used by V300-V1400 from the multiformat video-output path documented for V2600.

TWO MODULAR DEPLOYMENT PATHS

V300-V1400 provide direct LED-data outputs; V2600 provides high-density multiformat routing and processing.

V300 / V500 / V700 / V1400

DIRECT-TO-LED DATA PATH



V2600

MULTIFORMAT PROCESSING PATH



ARCHITECTURE BOUNDARY The V2600 output table lists video-output card types, not direct 1 GbE LED-data ports.

COMPONENT RESPONSIBILITIES

COMPONENT	PRIMARY RESPONSIBILITY
Input card	Receives the installed DVI, HDMI, DisplayPort, VGA or SDI source formats and supplies them to the chassis processing fabric.
Processing chassis	Performs source switching, window composition, scaling, splicing, synchronization, EDID handling and scene control.
10-port 1 GbE output card	Converts processed output into LED display data for direct connection to Mooncell receiving cards; applies to V300-V1400.
V2600 video-output card	Provides the selected 2K/4K video output interfaces listed in the V2600 specification.
LED receiving-card system	Reproduces the assigned LED image within the configured receiving-card and cabinet load limits.

GENLOCK V300, V500, V700 and V1400 panel tables identify a Genlock synchronization daisy-chain interface. Treat this as a frame-reference connection, not as proof of shared image-processing capacity between chassis.

SECTION 05

DISPLAY PROCESSING & SYSTEM FUNCTIONS

Core visual, control and resiliency functions consolidated from the V Series and V2600 source sections.

LAYER COMPOSITION

Arbitrary z-order, roaming and scaling across multiple windows.

IRREGULAR MAPPING

Splicing for non-rectangular and creative LED display geometries.

FRAME SYNC

Synchronized fast-motion playback without visible tearing.

EDID & RESOLUTION

Custom EDID, point-to-point mapping and per-output resolution setup.

SCENES & AUTOMATION

Scene storage, export, scheduling, cycling and browser recall.

RESILIENCY

Input hot backup, source preview and hardware fault diagnostics.

FUNCTION REFERENCE

FUNCTION	SUPPORTED BEHAVIOR
Multi-window composition	Arbitrary layer ordering with free roaming and scaling between input sources.
Irregular LED splicing	Supports irregular display layouts and intelligent creative-shape mapping.
Frame synchronization	Maintains synchronized fast-motion playback without visible image tearing.
EDID and pixel mapping	Supports input EDID modification, custom resolutions and point-to-point display.
Source processing	Source cropping and local magnification; source preview is available on the V2600.
Scenes	PC scene storage; V2600 also supports scene export, scheduled recall and scene cycling.
Control	Web control; V2600 also supports C/S preview return, B/S browser access and third-party central control.
Signal resilience	Input-source hot backup automatically changes to the standby source when the active source is interrupted.
Audio	HDMI embedded-audio input; V2600 additionally lists embedded audio and 3.5 mm audio I/O support.

RESOLUTION DEPENDENCY The source states that different outputs may use different resolutions and also warns that smart single-port resolution changes may affect other outputs. Validate the final resolution plan on the delivered firmware.

SECTION 06

INPUT CARDS: DVI & HDMI

Standard digital input cards with EDID management and card-front signal-status indication.



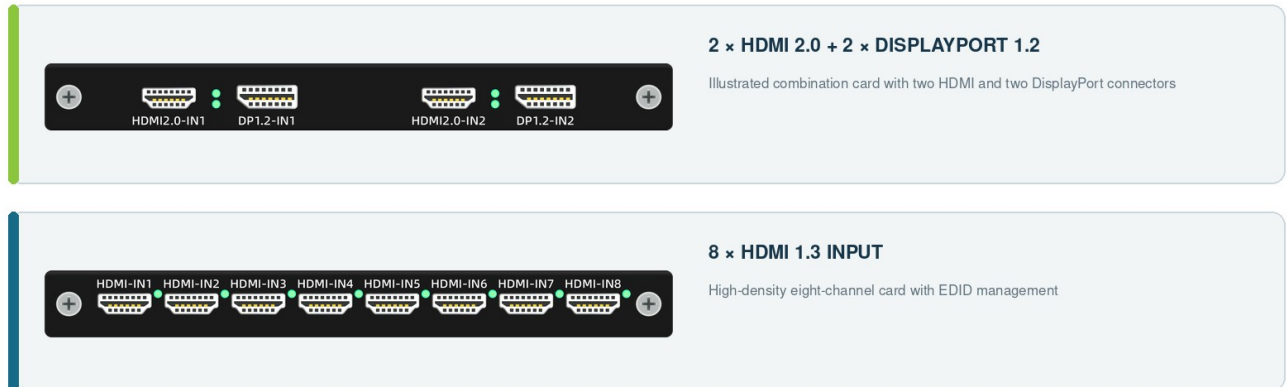
CARD	SIGNAL STANDARD	SUPPORTED FORMAT / CONDITION
4 x DVI	VESA DVI-D digital	Maximum 2048 × 1152 @ 60 Hz; minimum 800 × 600 @ 60 Hz; custom EDID.
4 x HDMI 1.3	EIA/CEA-861, HDMI 1.3	Maximum 2048 × 1152 @ 60 Hz; minimum 800 × 600 @ 60 Hz; custom EDID.
4 x HDMI 1.4	HDMI 1.4	3840 × 2160 @ 30 Hz or 3840 × 1080 @ 60 Hz; custom EDID.

STATUS INDICATORS For these source-input cards, an illuminated indicator denotes a valid connected source. An unlit indicator denotes no source or an abnormal source condition.

SECTION 07

HIGH-RESOLUTION & HIGH-DENSITY INPUT CARDS

4K60 HDMI/DisplayPort input and high-density eight-channel HDMI input options.



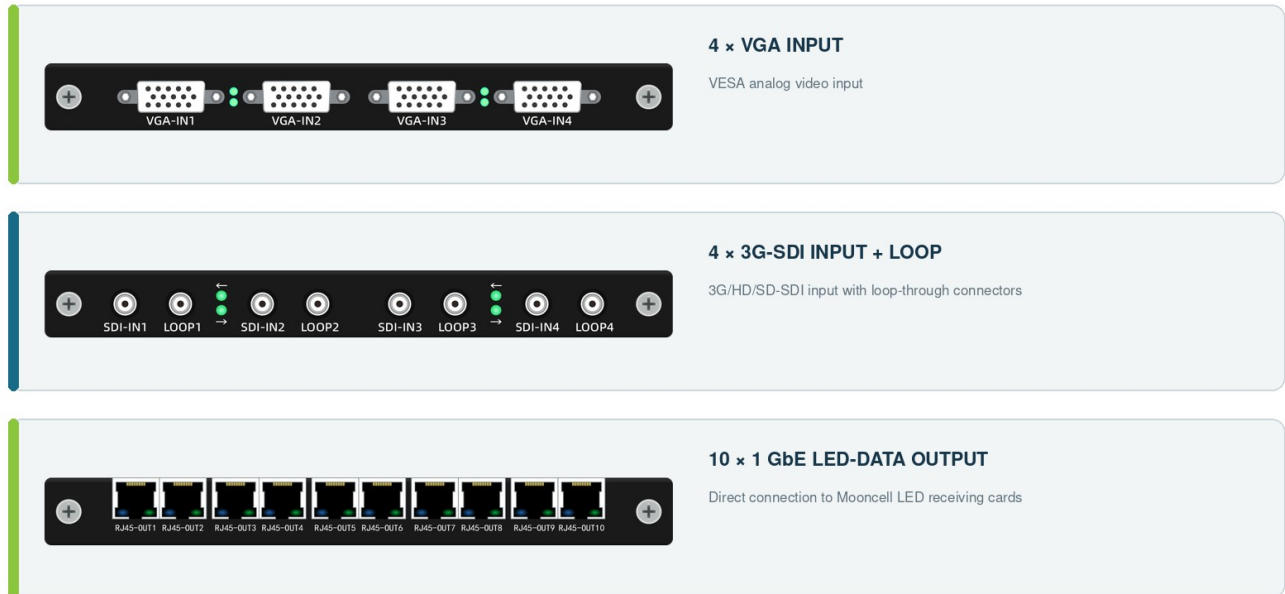
INPUT	SUPPORTED FORMATS	ADDITIONAL CONDITIONS
2 x HDMI 2.0	3840 × 2160 @ 60 Hz; 4096 × 2160 @ 60 Hz; 1920 × 4800 @ 60 Hz; 7680 × 1080 @ 60 Hz	Maximum width 7680; maximum height 4800; custom EDID; compatible with HDMI 1.4 and HDMI 1.3 sources.
2 x DisplayPort 1.2	3840 × 2160 @ 60 Hz; 4096 × 2160 @ 60 Hz; 1920 × 4800 @ 60 Hz; 7680 × 1080 @ 60 Hz	Maximum width 7680; maximum height 4800; custom EDID; compatible with DisplayPort 1.1 sources.
8 x HDMI 1.3	Maximum 2048 × 1152 @ 60 Hz; minimum 800 × 600 @ 60 Hz	One card provides eight inputs; custom EDID. The source states 'RSB 4:2:2' processing; confirm the intended color-format notation.

CARD ILLUSTRATION The supplied front-panel graphic shows two HDMI 2.0 and two DisplayPort 1.2 connectors on one illustrated card. Confirm the actual connector combination and enabled channels for the ordered card.

SECTION 08

VGA, SDI & LED-DATA OUTPUT CARDS

Legacy analog input, broadcast SDI input and ten-port direct LED-data output reference.



CARD	SPECIFICATION
4 x VGA input	VESA-compatible analog input; supports up to 1920 x 1080 @ 60 Hz.
4 x 3G-SDI input	Compatible with SMPTE ST 424 3G-SDI, ST 292 HD-SDI and SMPTE 259 SD-SDI; maximum 1920 x 1080 @ 60 Hz per input; supports deinterlacing for 1080i, 576i and 480i.
10 x RJ45 output	Ten 1 GbE LED-data outputs; up to 650,000 pixels per port at 8-bit output or 480,000 pixels per port at 10-bit output; supports the Mooncell receiving-card family.

HDR10 / 10-BIT MODE The family table states a 1,440-pixel maximum port width and a 480,000-pixel load when 10-bit output is enabled, with only the first eight ports available. Confirm the applicable output-card firmware and port mapping.

SECTION 09

V300 FRONT & REAR PANELS

3U modular chassis with four 10-port LED-data output-card positions and configurable 2K/4K input cards.

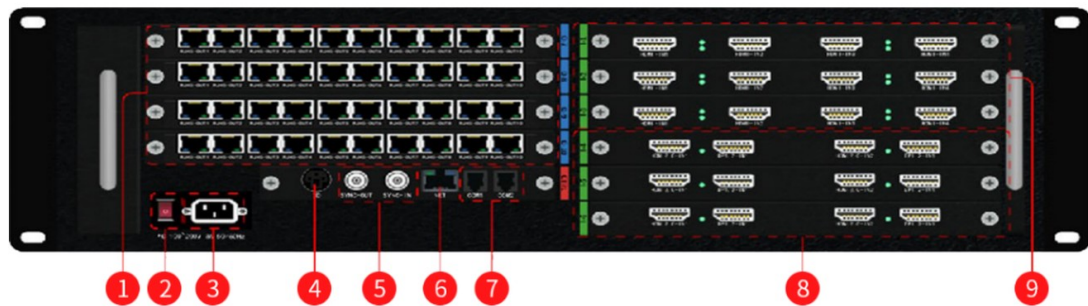
V300 FRONT AND REAR PANEL

Numbered callouts correspond to the interface table below.

FRONT



REAR



Product image is for reference; delivered appearance and installed cards may vary.

NO.	INTERFACE / SLOT	FUNCTION
1	4 × output-card slots	Accepts up to four 10-port RJ45 LED-data output cards.
2	Power switch	Controls chassis power.
3	AC power inlet	Connects the chassis power supply.
4	3D-IN	Interface shown in the source; not supported.
5	Genlock synchronization	Frame-reference synchronization daisy-chain connection.
6	RJ45 network	Network-control interface.
7	RS-232	Serial-control interface.
8	2K/4K input-card slots	Optional: 2 × HDMI 2.0 / 2 × DP 1.2 / 8 × HDMI 1.3 / 4 × HDMI 1.3 / 4 × DVI / 4 × HDMI 1.4 / 4 × VGA / 4 × 3G-SDI.
9	2K input-card slots	4 × DVI / 4 × HDMI 1.3 / 4 × VGA / 4 × 3G-SDI.

CONFIGURATION NOTE Input/output card positions are modular. Confirm the delivered slot population, card types and rear-panel assignment before cabling.

SECTION 10

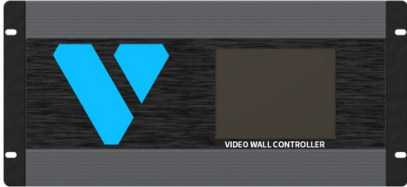
V500 FRONT & REAR PANELS

5U modular chassis with six 10-port LED-data output-card positions and redundant power provision.

V500 FRONT AND REAR PANEL

Numbered callouts correspond to the interface table below.

FRONT



REAR



Product image is for reference; delivered appearance and installed cards may vary.

NO.	INTERFACE / SLOT	FUNCTION
1	6 × output-card slots	Accepts up to six 10-port RJ45 LED-data output cards.
3	Genlock synchronization	Frame-reference synchronization daisy-chain connection.
4	RJ45 network	Network-control interface.
5	RS-232	Serial-control interface.
6	Power switch	Controls chassis power.
7	Redundant power supplies	Redundant power-supply assembly as illustrated.
8	2K/4K input-card slots	4 × DVI / 4 × HDMI 1.3 / 2 × HDMI 2.0 / 2 × DP 1.2 / 8 × HDMI 1.3 / 4 × HDMI 1.4 / 4 × VGA / 4 × 3G-SDI.

SOURCE CALLOUT GAP Callout 2 is not defined in the supplied V500 interface table.

CONFIGURATION NOTE Input/output card positions are modular. Confirm the delivered slot population, card types and rear-panel assignment before cabling.

SECTION 11

V700 FRONT & REAR PANELS

7U modular chassis with ten 10-port LED-data output-card positions and configurable 2K/4K input cards.

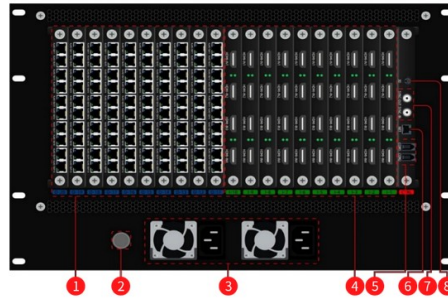
V700 FRONT AND REAR PANEL

Numbered callouts correspond to the interface table below.

FRONT



REAR



Product image is for reference; delivered appearance and installed cards may vary.

NO.	INTERFACE / SLOT	FUNCTION
1	10 × output-card slots	Accepts up to ten 10-port RJ45 LED-data output cards.
2	Power switch	Controls chassis power.
3	AC power inlet	Connects the chassis power supply.
4	2K/4K input-card slots	Optional: 4 × DVI / 4 × HDMI 1.3 / 2 × HDMI 2.0 / 2 × DP 1.2 / 8 × HDMI 1.3 / 4 × HDMI 1.4 / 4 × VGA / 4 × 3G-SDI.
5	RS-232	Serial-control interface.
6	RJ45 network	Network-control interface.
7	Genlock synchronization	Frame-reference synchronization daisy-chain connection.
8	3D-IN	Interface shown in the source; not supported.

CONFIGURATION NOTE Input/output card positions are modular. Confirm the delivered slot population, card types and rear-panel assignment before cabling.

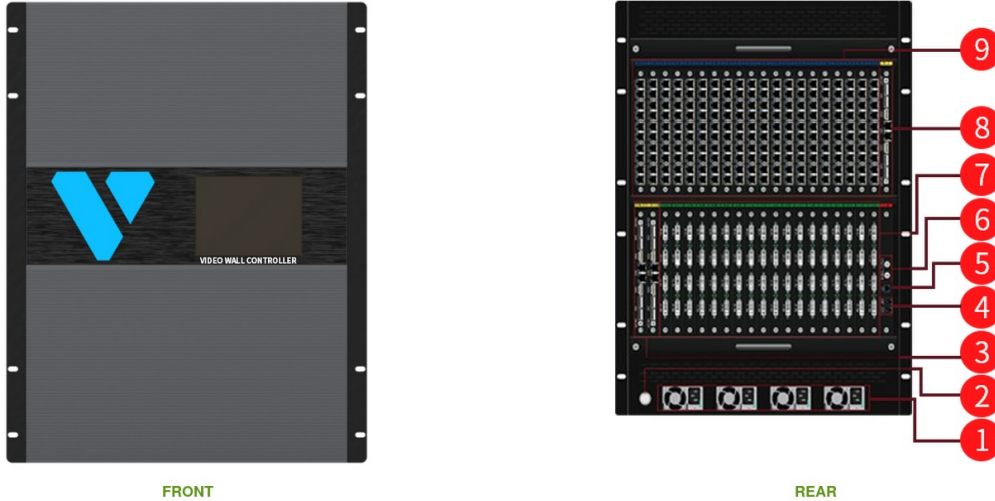
SECTION 12

V1400 FRONT & REAR PANELS

14U high-density modular chassis with twenty 10-port LED-data output-card positions.

V1400 FRONT AND REAR PANEL

Numbered callouts correspond to the interface table below.



Product image is for reference; delivered appearance and installed cards may vary.

NO.	INTERFACE / SLOT	FUNCTION
1	Power supply	Chassis power-supply assembly.
2	Power switch	Controls chassis power.
3	Shared input-card slots	General input-card positions.
4	RS-232	Serial-control interface.
5	RJ45 network	Network-control interface.
6	Genlock synchronization	Frame-reference synchronization daisy-chain connection.
7	2K/4K input-card slots	Optional: 4 × DVI / 4 × HDMI 1.3 / 2 × HDMI 2.0 / 2 × DP 1.2 / 8 × HDMI 1.3 / 4 × HDMI 1.4 / 4 × VGA / 4 × 3G-SDI.
9	20 × output-card slots	Accepts up to twenty 10-port RJ45 LED-data output cards.

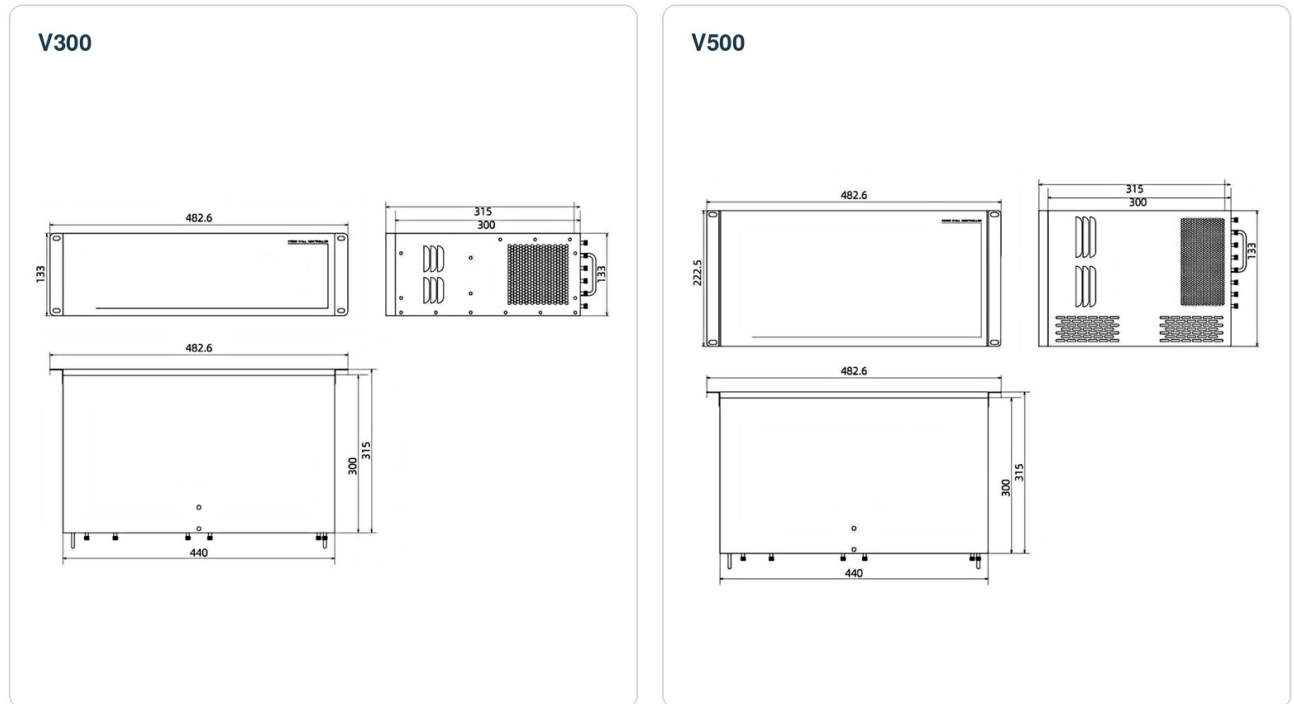
SOURCE CALLOUT GAP Callout 8 is not defined in the supplied V1400 interface table.

CONFIGURATION NOTE Input/output card positions are modular. Confirm the delivered slot population, card types and rear-panel assignment before cabling.

SECTION 13

V300 & V500 MECHANICAL DIMENSIONS

Rackmount chassis envelopes for the 3U and 5U direct LED-data platforms.



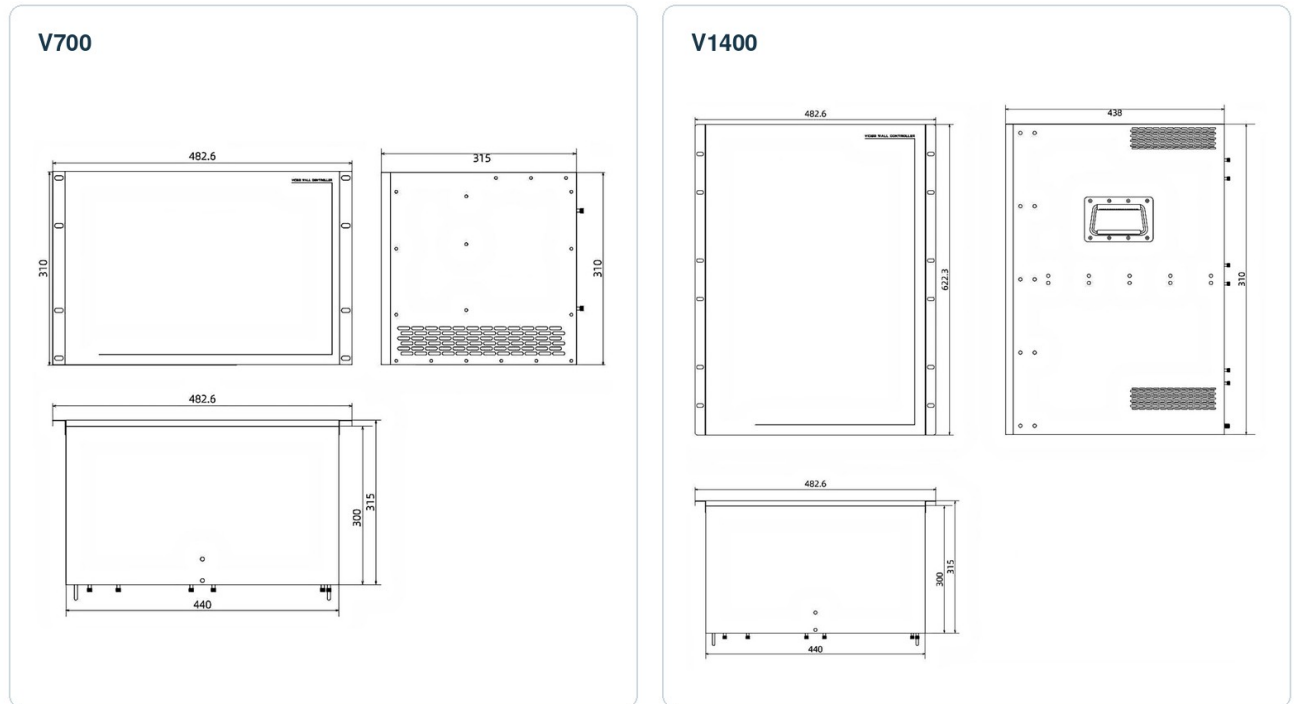
MODEL	CHASSIS	OVERALL DIMENSIONS (W × D × H)	DRAWING TOLERANCE
V300	3U	482.6 × 315 × 133 mm	±0.3 mm
V500	5U	482.6 × 315 × 222.5 mm	±0.3 mm

RACK INTEGRATION Confirm rack depth, rail/support method, rear cable bend radius, ventilation clearance and installed card projection before fabrication.

SECTION 14

V700 & V1400 MECHANICAL DIMENSIONS

Rackmount chassis envelopes for the 7U and 14U direct LED-data platforms.



MODEL	CHASSIS	OVERALL DIMENSIONS (W × D × H)	DRAWING TOLERANCE
V700	7U	482.6 × 315 × 310 mm	±0.3 mm
V1400	14U	482.6 × 438 × 662.3 mm	±0.3 mm

INSTALLATION HANDLING The V1400 is a tall 14U chassis. Use appropriate rack support and lifting procedures and maintain unobstructed fan airflow.

SECTION 15

V300-V1400 PERFORMANCE COMPARISON

Direct LED-data capacity, layer count, input density and output behavior by chassis size.

PARAMETER	V300	V500	V700	V1400
Chassis	3U	5U	7U	14U
Max. 2K inputs	36	48	80	160
Max. 4K @ 30 Hz inputs	24	24	40	80
Max. 4K @ 60 Hz inputs	6	12	20	40
1 GbE LED-data outputs	40	60	100	200
Per-port load, 8-bit	650,000 px	650,000 px	650,000 px	650,000 px
Maximum layers	32	48	80	160
Maximum LED load	26.0 MP	39.0 MP	65.0 MP	130.0 MP
Per-port max. W / H	1920 / 1920	1920 / 1920	1920 / 1920	1920 / 1920
HDR10 / 10-bit mode	480,000 px; width 1440; first 8 ports	480,000 px; width 1440; first 8 ports	480,000 px; width 1440; first 8 ports	480,000 px; width 1440; first 8 ports
HDMI embedded audio	Supported	Supported	Supported	Supported
Preview card	Not supported	Not supported	Not supported	Not supported

SOURCE DISCREPANCY The feature text states a maximum single-network-port width/height of 65,536 pixels, while the detailed comparison table states 1,920 / 1,920. Confirm the applicable firmware and project limit before system design.

SCALING RULE One 10-port output card provides ten 1 GbE LED-data outputs and connects directly to LED receiving cards. System capacity depends on installed output-card count and bit-depth mode.

SECTION 16

V300-V1400 CHASSIS, POWER & ENVIRONMENT

Mechanical, power and cooling data from the supplied family comparison table.

PARAMETER	V300	V500	V700	V1400
Form factor	3U	5U	7U	14U
Dimensions (W × D × H)	482.6 × 315 × 133 mm	482.6 × 315 × 222.5 mm	482.6 × 315 × 310 mm	482.6 × 438 × 662.3 mm
Chassis weight	7.8 kg ±0.5 kg	13.7 kg ±0.5 kg	15.0 kg ±0.5 kg	30.0 kg ±0.5 kg
Maximum / stated power	204 W	550 W × 2	550 W × 2	550 W × 4
Supply voltage	AC 110-240 V	AC 110-240 V	AC 110-240 V	AC 110-240 V
Supply frequency	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz
Cooling	Forced-air fan	Forced-air fan	Forced-air fan	Forced-air fan

DEPLOYMENT CHECKPOINTS

- Size the rack power distribution for the stated power-supply arrangement and the installed card population.
- Maintain clear front-to-rear or chassis-designated airflow and do not block fan inlets or exhausts.
- Provide rack support appropriate to the stated chassis weight and installed cabling.
- Verify grounding, breaker capacity, redundant power feeds and service access before commissioning.

VOLTAGE-RANGE DISCREPANCY The family comparison table lists AC 110-240 V, while the safety section states AC 100-240 V. Use the delivered power-supply nameplate and project electrical design as the governing value.

SECTION 17

V2600 PLATFORM OVERVIEW

A 26U high-density modular video wall processor for fine-pitch LED and large multi-screen applications.

The V2600 is designed for fine-pitch LED display systems and high-density multi-screen processing. A single 2K output interface supports up to 2.45 million pixels at the stated 60-frame format, while a single 4K output interface supports up to 8.29 million pixels at the stated 60-frame format. In this English edition, these output formats are expressed as 60 Hz video signals.

2.45 MP PER 2K OUTPUT Stated at 60 Hz	8.29 MP PER 4K OUTPUT Stated at 60 Hz	72 × 4K MAX. I/O DENSITY Input and output interface count	26U MODULAR CHASSIS 36 input + 36 output card slots
--	--	--	--

APPLICATION POSITIONING

APPLICATION	V2600 VALUE
Security surveillance	High-density source access and multi-window display processing.
Exhibition and visualization	Flexible source composition, irregular-screen splicing and scene recall.
Transport and command control	Source preview, hot backup, synchronization and centralized operation.
Education and medical teaching	High-resolution source processing and point-to-point display.
Administrative management	Browser access, scheduled scenes and unified peripheral control.

PRODUCT IDENTITY The model name is standardized as V2600 throughout this edition. The product remains a 26U chassis platform.

SECTION 18

V2600 SIGNAL & DISPLAY PROCESSING

Multiformat source access, output selection, window composition, EDID management and synchronized display processing.

SUPPORTED CARD TYPES

PATH	SUPPORTED CARD / SIGNAL TYPES
Input	DVI, HDMI 1.3, HDMI 1.4, HDMI 2.0, DisplayPort 1.2, VGA, 3G-SDI, 12G-SDI, Intelligent Central Control Card and HDBaseT
Output	HDMI 2.0, DisplayPort 1.2, HDMI 1.3, DVI, SDI, HDBaseT and 3.5 mm audio card
Maximum input format	3840 × 2160 @ 60 Hz
Maximum output format	3840 × 2160 @ 60 Hz

IMAGE AND WINDOW PROCESSING

FUNCTION	SUPPORTED BEHAVIOR
Brightness / switching	Brightness adjustment, per-window freeze and seamless source switching.
Source preview	Previews the incoming source in software before it is assigned to the output.
Layers and windows	Arbitrary layer ordering with free roaming and scaling across multiple windows.
Banner / subtitle	Adjustable font size and color; subtitles may also be added as image content.
Irregular display splicing	Supports non-rectangular display layouts such as spherical and cube-shaped LED displays.
EDID and point-to-point	Modifies input-interface EDID and supports point-to-point display mapping.
Cropping / local zoom	Crops the source and magnifies a selected region.
Frame synchronization	Maintains complete frame synchronization during fast-motion playback without visible tearing.

SECTION 19

V2600 RESOLUTION, AUDIO & CONTENT CONTROL

Custom output formats, scene files, source identification and audio behavior.

RESOLUTION MANAGEMENT

ITEM	SOURCE-SPECIFIED BEHAVIOR
Custom resolution	Maximum custom width 3840 pixels; maximum custom height 3840 pixels per output.
Independent output formats	Different output ports may be assigned different resolutions.
Smart resolution setup	Supports configuring a single output-port resolution; the source notes that the change may affect other outputs.
Point-to-point output	EDID and custom-format control support point-to-point display mapping.

CONTENT, SCENES & AUDIO

- Stores PC scenes and exports scene files for backup.
- Supports scheduled scene recall and scene cycling.
- Displays an input-source station logo or source-identification overlay.
- Supports embedded audio accompanying the input signal.
- Supports 3.5 mm analog audio input and output through the stated audio-card option.

OPERATOR VALIDATION

- Confirm whether a single-port smart-resolution change shares timing resources with other outputs.
- Validate image freeze, seamless switching, audio routing and source-logo overlays with the final card mix.
- Export and archive the approved scene file after commissioning.

RESOLUTION DEPENDENCY The source contains both independent-resolution and cross-output dependency statements. Treat the delivered firmware behavior as authoritative for the project.

SECTION 20

V2600 CONTROL, RESILIENCY & DIAGNOSTICS

Multi-platform operation, preview return, browser control, hot backup and hardware fault reporting.



CONTROL AND OPERATING ENVIRONMENTS

FUNCTION	CAPABILITY
Operating systems	Windows, iOS, Android, HarmonyOS and Kylin OS.
C/S architecture	Screen-preview return; currently stated for 5U, 14U and 26U devices only.
B/S architecture	Direct browser access for source switching and scene recall.
Third-party control	Software operation can connect to an external third-party central-control system.
Intelligent central control	Peripheral devices may connect to central-control cards for unified control.

RESILIENCY AND DIAGNOSTICS

- Input-source hot backup automatically changes to a standby source if the active signal is interrupted.
- Intelligent hardware self-test reports relevant fault information to support troubleshooting.
- Source preview provides an advance view of connected signals before live assignment.
- Scheduled scenes and scene cycling support repeatable unattended operation.

C/S SCOPE The source explicitly limits C/S preview return to 5U, 14U and 26U devices at the documented revision. Confirm current software and hardware support before deployment.

SECTION 21

V2600 CHASSIS ARCHITECTURE & PANELS

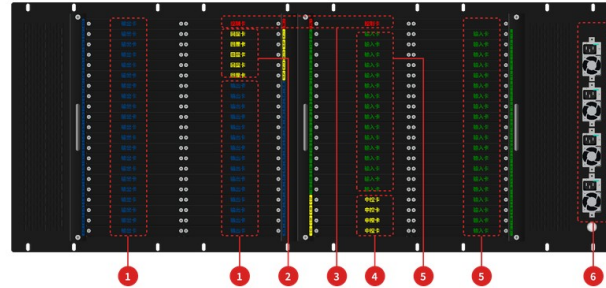
26U front enclosure and rear modular slot layout for the V2600 platform.

V2600 FRONT AND REAR PANEL

Numbered callouts correspond to the interface table below.



FRONT



REAR

Product image is for reference; delivered appearance and installed cards may vary.

NO.	SLOT GROUP	QUANTITY / FUNCTION
1	Output-card slots	36 slots
2	Preview-card slots	5 slots
3	Control-card slot	1 slot
4	Central-control card slots	4 slots
5	Input-card slots	36 slots
6	Power-supply slots	4 slots

SLOT POPULATION The listed slot quantities describe the chassis architecture. They do not state that every slot is populated in a standard delivery; confirm the ordered cards, power supplies and control modules.

SECTION 22

V2600 TECHNICAL SPECIFICATIONS

High-density card-interface capacity, supported card families and chassis-level electrical/mechanical data.

CATEGORY	PARAMETER	V2600 SPECIFICATION
Chassis	Form factor	26U
Input capacity	Card-interface count	Up to 72 × 4K interfaces or 288 × 2K interfaces
Output capacity	Card-interface count	Up to 72 × 4K interfaces or 144 × 2K interfaces
Input cards	Supported types	DVI, HDMI 1.3, HDMI 1.4, HDMI 2.0, DisplayPort 1.2, VGA, 3G-SDI, 12G-SDI, Intelligent Central Control Card and HDBaseT
Output cards	Supported types	DVI, HDMI 1.3, HDMI 2.0, DisplayPort 1.2, SDI, HDBaseT and 3.5 mm audio card
Input format	Maximum resolution	3840 × 2160 @ 60 Hz
Output format	Maximum resolution	3840 × 2160 @ 60 Hz
Electrical	Maximum system power	946 W
Mechanical	Dimensions (W × D × H)	482.6 × 438 × 1157 mm
Mechanical	Chassis weight	54.5 kg ±0.1 kg
Standard set	Included platform	26U chassis, power-supply system and control card

INTERFACE-COUNT MEANING The 2K/4K quantities are listed as input-card and output-card interface counts in the source. They are not stated as simultaneous decoded streams, LED-data ports or aggregate LED pixel capacity.

ORDER-CONFIGURATION CHECK

- Confirm the quantity and position of every input, output, preview, central-control and power module.
- Confirm connector standards, maximum format, audio requirements and HDBaseT/SDI distance requirements.
- Confirm the downstream processor, LED sending controller or display input used by each video-output card.

SECTION 23

V2600 CHASSIS & MECHANICAL ENVELOPE

Front/rear appearance and millimeter drawing for the 26U rolling chassis.

V2600 26U CHASSIS AND MECHANICAL ENVELOPE



PARAMETER	SPECIFICATION
Form factor	26U
Overall dimensions	482.6 × 438 × 1157 mm (W × D × H)
Chassis weight	54.5 kg ±0.1 kg
Maximum system power	946 W
Standard set	26U chassis, power-supply system and control card

HANDLING AND INSTALLATION Use suitable lifting and rolling procedures for the 54.5 kg chassis. Confirm doorway, rack-room, cable-access, floor-loading and ventilation clearances before delivery.

SECTION 24

INSTALLATION, SAFETY & DOCUMENT CONTROL

Electrical safety, source-data boundaries, revision traceability and the V2600 nomenclature correction.

SOURCE SAFETY REQUIREMENTS

- High voltage: the source states an operating range of AC 100-240 V.
- Do not allow liquids, metal fragments or other conductive objects to enter the equipment.
- Operate the equipment in a dry, clean environment.
- Disconnect power before opening the enclosure or servicing internal modules, and use qualified personnel for installation and maintenance.
- Maintain fan airflow and use a correctly grounded electrical supply and chassis installation.

ELECTRICAL HAZARD The comparison table lists AC 110-240 V while the safety text lists AC 100-240 V. The delivered power-supply nameplate is the governing electrical specification.

DOCUMENT CONTROL

DOCUMENT	HARDWARE	RELEASE DATE	CHANGE DESCRIPTION
V4.0	V1.0.0	2025-08-05	Initial document release.
V4.1	V1.0.0	2025-12-08	Updated product front-panel images.
V4.2	V1.0.0	2026-03-10	Removed preview-card support for V500 and V1400; not supported.
V4.3	V1.0.0	2026-03-17	Added the V2600 26U product.

SPECIFICATION BASIS This first-workflow English edition reorganizes the supplied Chinese V Series Video Wall Processor Specification V4.3 while preserving its stated technical content and identifying material source inconsistencies.

NOTICE Specifications, installed cards, firmware behavior and product appearance may change with revision. Confirm all project-critical requirements against the delivered configuration.

After-Sales Service Hotline: 400-881-3531

Website: www.mooncell.com.cn

Professional LED Display Control Systems

Specifications and product appearance are subject to change without notice.

