

PROJECTION CUBE

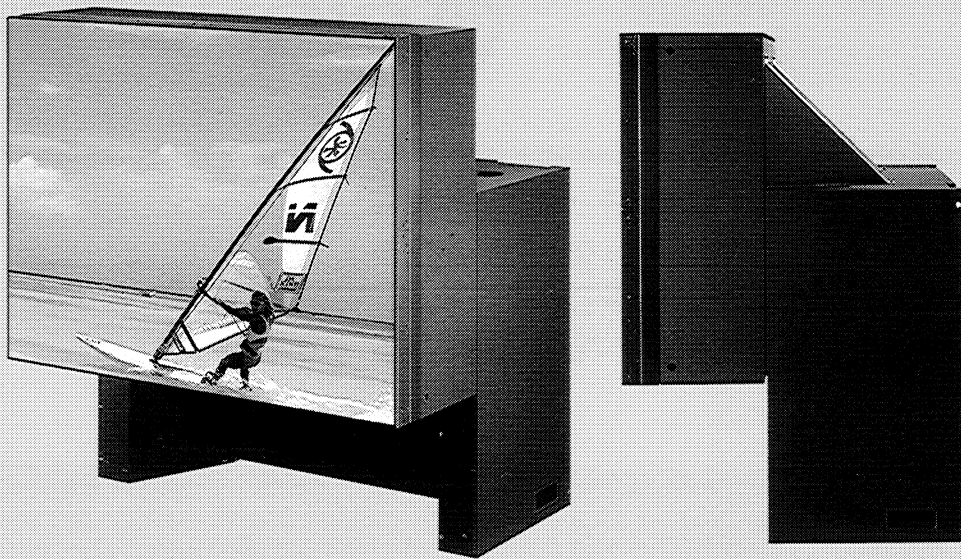
PIONEER[®]
The Art of Entertainment

MULTI-PROJECTION CUBE SYSTEM

VIDEO CUBE Series

RM-V2550U (100-120V), RM-V2550E (220-240V)



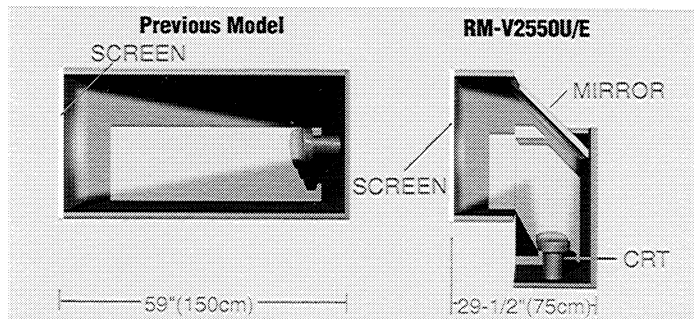


Pioneer's latest image quality in

Take a good look at Pioneer's latest VIDEO CUBE and an innovative design that are set to housing a 50-inch (diag.) CUBE screen in chimney construction that allows heat to escape. What's more, they've achieved a design that is as well as or better than any of its predecessors in terms of transport and install, and multiple units are a cost-effective solution for professional

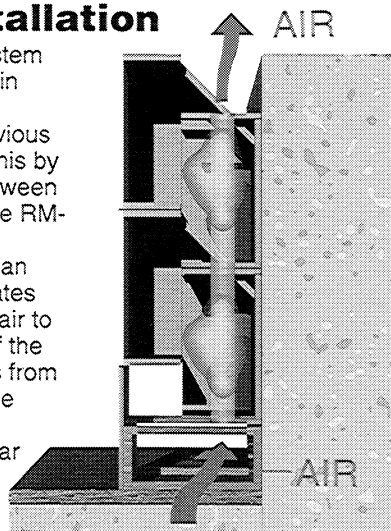
New Slim Construction

A major drawback with conventional video projection systems is their sheer bulk, which complicates transportation and installation, especially where space is limited. Now Pioneer has come up with an effective solution in the form of a mirror optical system that reflects the light beams emanating from the CRT through 90° before directing them onto the projection screen. As a result, we've succeeded in reducing the depth of our 50-inch CUBE model by half from 59" (150 cm) to just 29-1/2" (75 cm), while maintaining crisp, sharp picture quality and actually reducing costs. Spectacular large-screen viewing is now a practical proposition for a broader range of environments and applications than ever before.



New Chimney Design Allows Flush Wall Installation

Large-screen projection system cabinets require ventilation in order to dissipate the heat generated by the CRT. Previous CRT technology achieved this by maintaining a small gap between the system and the wall. The RM-V2550U/E overcomes this problem through the use of an internal chimney that facilitates ventilation by allowing cool air to enter from the lower front of the unit while warm air escapes from the top. This design, plus the recessed connector panel, eliminates the need for a rear gap, allowing the system to be installed flush against the wall.



PAL/NTSC Dual Input Capability

To satisfy the demands of today's global media market, Pioneer's VIDEO CUBE Series is fully compatible with both PAL and NTSC TV signals. This capability ensures trouble free installation and operation in most countries including the U.S.A., Canada, Australia, Japan, China, Britain and Germany.

Enhanced Viewability

Pioneer has significantly improved the overall viewability of the VIDEO CUBE Series by increasing the on-screen brightness and maintaining uniform image quality both across and between the individual screens. To minimize the grid-line effect, the borders between the 50-inch screens have been narrowed to just 4 mm. Meanwhile, multi-switching, auto white balance and ABL linkage functions further enhance viewability.

Linear White Balance Circuitry

Thanks to the employment of linear white balance circuitry, the VIDEO CUBE Series provides expanded vision with much less color variation than previous systems. In addition, Pioneer has made white balance adjustment both easier and more accurate.

Multi-Screen Layout Flexibility

Pioneer's RM-V2550U/E 50-inch CUBE units can be stacked as required to create a multi-screen display that matches the requirements of almost any location. Up to three rows of units can be placed one above another and there is virtually no limit to the number of units that can be placed side-by-side.

Time Delayed Power Start

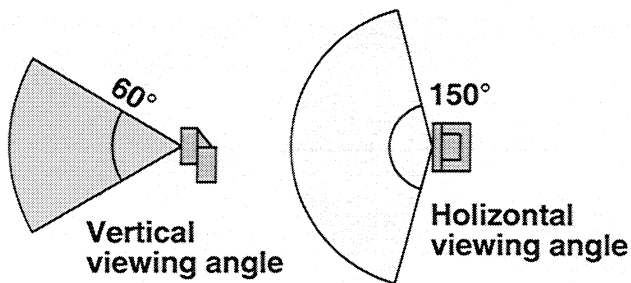
In case where the VIDEO CUBEs are connected in series to the same power source, this function prevents a potentially damaging power surge. It does this by staggering the turn on time of each unit in accordance with its ID number.

Video Cube offers superior performance and half the space

VIDEO CUBE System model and you'll be amazed at its capabilities. The new RM-V2550U/E boasts enhanced features that expand the possibilities of public space video display. Through the use of mirror optics, we've succeeded in a cabinet measuring 29-1/2" (75 cm) deep, half that of our previous model. In addition, we've employed a new design vented from the top of the unit, enabling flush wall installation. Together, these advances save a lot of valuable space in production cost without compromising on viewing performance. In fact, our latest model performs as well as our previous models in terms of picture quality, brightness and effective viewing angle. The RM-V2550U/E is exceptionally easy to install and can be stacked up to three high to provide broad range of installation flexibility. There's never been a more versatile multi-screen videowall applications.

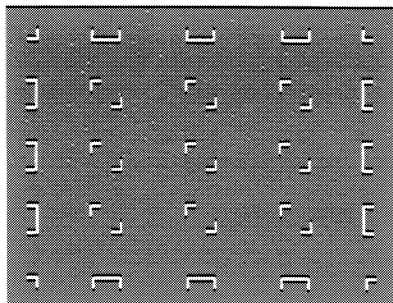
Wider Horizontal and Vertical Viewing Angles

Realizing horizontal and vertical viewing angles of 150° and 60° respectively, the VIDEO CUBE Series allows larger audiences to view clear, brighter pictures. In addition, the wider viewing angle removes the need to tilt the screens at the top of the system forward to optimize viewing, an advantage that simplifies installation and keeps the overall display in proportion.



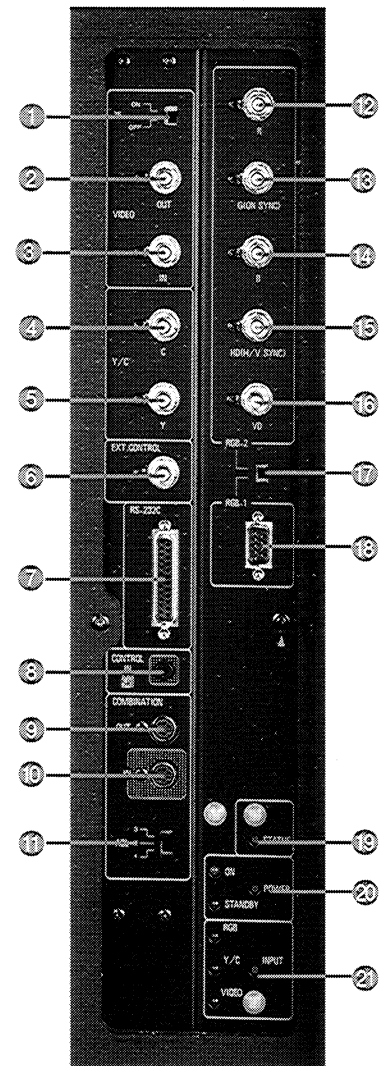
Easy Installation and Adjustment

For hassle-free installation, the RM-V2550U/E basic unit consists of separate screen and main unit sections that can be assembled with ease. Adjusting the VIDEO CUBE Series is also extremely easy thanks to 25-point digital point conversion plus an on-screen bar-graph display for white balance and RGB low/high adjustment. Further, in the interests of operator convenience, Pioneer has also significantly simplified the task of ABL (Auto Brightness Limiter) adjustment.



REAR PANEL CONFIGURATION

- 1 Terminal switch: ON when the video input terminal (9) is used as a 75Ω terminal.
- 2 Video output terminal (BNC)
- 3 Video input terminal (BNC)
- 4 C (chrominance) input terminal (BNC)
- 5 Y (luminance) input terminal (BNC)
- 6 Control input terminal (BNC)
- 7 RS-232C port (D-sub 25 pin)
- 8 Remote control-use terminal (mini jack)
- 9 Linked output terminal (Din 6 pin): Terminal for ABL, remote control or RS-232C output.
- 10 Linked input terminal (Din 6 pin): Terminal for ABL, remote control or RS-232C input.
- 11 ABL linked switch: The ABL linked control voltage adjusting switch.
- 12 RGB input terminal (R) (BNC)
- 13 RGB input terminal (G/composite sync.) (BNC)
- 14 RGB input terminal (B) (BNC)
- 15 RGB input terminal (horizontal sync./ composite sync.) (BNC)
- 16 RGB input terminal (vertical sync.) (BNC)
- 17 RGB input selection switch
- 18 RGB input terminal (D-sub 9 pin)
- 19 Status indicator switch
- 20 Power switch
- 21 Input switch: The composite video input, Y/C video input and RGB input selection switch.



SPECIFICATIONS

TV Standard	NTSC/PAL auto switching (with NTSC/PAL fixed mode)
CRT	7 inch CRT x 3
Horizontal Resolution	Video: 800 lines
Luminance (White Peak)	420 ft-L
Viewing Angle (Horizontal) (Vertical)	150° 60°
Mullion	about 3/16" about 4 mm
Input Signal	
Video Input (Standard level—75Ω load) (Input terminal)	1 Vp-p BNC connector x 1
Y/C Separate Input (Standard level—75Ω load) (Input terminal)	Y signal: 1 Vp-p (75Ω load; with synchronous signal) C signal: 286 mVp-p (burst signal, NTSC) 300 mVp-p (burst signal, PAL)
RGB input (Input terminal)	BNC connector (Y, C) x 1 each Analog RGB signal RGB-1: D-Sub 9in connector x 1 ^{*2} RGB-2: BNC connector x 5 ^{*2} R: Red input, 0.7 Vp-p±2dB, 75Ω end terminal, positive polarity G/G SYNC: Green input, 0.7 Vp-p±2dB, 75Ω end terminal, positive polarity; synchronous green input, 0.7 Vp-p±2dB, 75Ω end terminal, positive polarity B: Blue input, 0.7 Vp-p±2dB, 75Ω end terminal, positive polarity SYNC/HD: Composite synchronous input, 0.3–4 Vp-p, 75Ω end terminal, negative polarity; Horizontal synchronous input, 0.3–4 Vp-p, 75Ω end terminal, negative polarity VD: Vertical synchronous input, 0.3–4 Vp-p, 75Ω end terminal, negative polarity Synchronous signal frequency: depending on NTSC or PAL frequency
EXT control	BNC connector
Remote input	Mini jack
Linked input	6PIN DIN connector
Output Signal	
Video Output (Standard level—75Ω load) Linked Output	1 Vp-p; output of input signal from input terminal 6PIN DIN connector
Computer Control System Speed	RS-232C (D-SUB 25PIN) 1200/2400/4800/9600/19200 BPS ^{*1}
Power Source Voltage	RM-V2550U: AC 100–120V, 50/60Hz RM-V2550E: AC 220–240V, 50/60Hz
Power Consumption	370VA (ordinary)/400VA (maximum) ^{*3} RM-V2550U: 275W/400VA RM-V2550E: 275W/330VA
AC Outlet	RM-V2550U: Max. 10A, AC 100–120V outlet x 1 RM-V2550E: Max. 10A, AC 220–240V outlet x 1
Dimensions (W x H x D)	40-19/32" x 43-29/32" x 29-17/32" 1030.8 x 1115.5 x 750mm
Weight (main unit)	191 lbs. 12 oz. 87kg
Accessories	Control cable x 1 *For use when controlling plural VIDEO CUBE units.

*1 The RS-232C baud rate is factory set at 4800 BPS. It can be adjusted by remote control or via a personal computer.

*2 The system can be switched between RGB-1 & 2. Only one RGB can be used at a time.

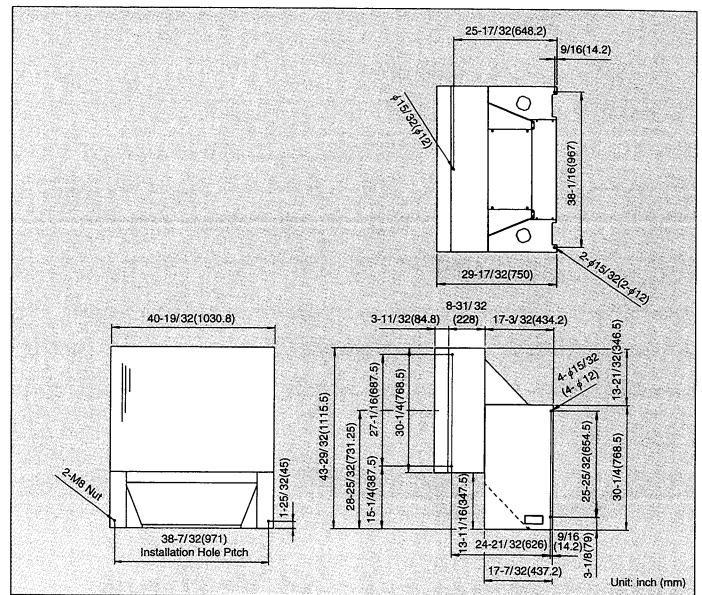
*3 The NTSC/PAL color bar signal input and all adjustment data are as per factory load conditions.

·For more details, contact one of the addresses below.

·Design and specifications are subject to change without notice.

·All product names and company names are registered trademarks of their respective owners.

DIMENSIONS



Optional Multi-Video Processor RMD-V3104U/A

The RMD-V3104U/A is a compact, low-cost, multi-video processor designed for use with a 4-screen RM-V2550U/E VIDEO CUBE Series assembly. In addition to combining high-picture quality with easy operation, this space-saving processor can also be equipped with a variety of optional boards including a variable scan board (RMD-V3020), NTSC board with Motion Adaptive Interpolation Mode (RMD-V3010), and PAL/NTSC input board (RMD-V3060).

Input Signal	Composite video 1.0 Vp-p(75Ω) Y/C Y:1.0 Vp-p(75Ω) C:0.286 Vp-p(Burst,75Ω)
Number of Inputs	1 *1 slot as option
Output Signal	RMD-V3104U Composite video 1.0 Vp-p(75Ω) Y/C Y:1.0 Vp-p(75Ω) C:0.286 Vp-p(Burst,75Ω) RGB signal(G on SYNC)0.7 Vp-p(75Ω) RMD-V3104A RGB signal(G on SYNC)0.7 Vp-p(75Ω)
Number of Output	4
Control	RS-232C
Power Consumption	100 W
Power Supply	RMD-V3104U:AC100-120V,60 Hz RMD-V3104A:AC220-240V,50/60 Hz
Dimensions(w x H x D)	14-27/32" x 8-1/16" x 15-1/16" 377 x 204 x 382 mm
Weight	26 lbs. 7 oz. 12 kg

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