

| | 1080i | | 1080/24p | 720p | | 480i/575i | | | | 480p |
|------------------------|------------------|--------|----------|------------------|--------|------------------|------------------|-------------------|-------------------|------------------|
| | Analog component | HD SDI | HD SDI | Analog component | HD SDI | Analog component | Analog composite | Digital component | Digital composite | Analog component |
| Type 1 (HTM-2050R) | STD | OPT | OPT | STD | OPT | STD | OPT | OPT | OPT | OPT |
| Type 2 (HTM-2050R) | STD | OPT | OPT | — | OPT | STD | OPT | OPT | OPT | OPT |
| HTM-1505R/1505CS/1005R | STD | OPT | OPT | STD | OPT | STD | OPT | OPT | OPT | OPT |

* STD : Standard * OPT : Option * Analog component : Y P_B P_R or R G B * Digital composite : NTSC only

Specifications

GENERAL

Input Voltage

100V ~ 120VAC ± 10%, 50/60Hz, Single Phase (100V area)
 200V ~ 240VAC ± 10%, 50/60Hz, Single Phase (200V area)
 DC Input : +12VDC (HTM-1005R : option)

Power Consumption

HTM-1005R : 110W (DC : 95W)
 HTM-1505R/CS : 150W (with option 240W Max)
 HTM-2050R : 200W (with option 240W Max)

Ambient Temperature

0 ~ 40°C (32 ~ 104°F), 90% or less relative humidity (non-condensing)

Dimensions

HTM-1005R : 222 (W) × 213 (H) × 415 (D) mm
 8.74 (W) × 8.39 (H) × 16.34 (D) inches
 HTM-1505R : 450 (W) × 310 (H) × 515 (D) mm
 17.72 (W) × 12.20 (H) × 20.28 (D) inches
 HTM-1505CS : 350 (W) × 300 (H) × 515 (D) mm
 13.78 (W) × 11.81 (H) × 20.28 (D) inches
 HTM-2050R : 450 (W) × 399 (H) × 515 (D) mm
 17.72 (W) × 15.71 (H) × 20.28 (D) inches

Weight

HTM-1005R : 10kg (22.03 lbs) approx.
 HTM-1505R : 28kg (61.73 lbs) approx.
 HTM-1505CS : 25kg (55.11 lbs) approx.
 HTM-2050R : 37kg (81.57 lbs) approx.

RATING

Input Signal

HDTV :

RGB/Y,P_B,P_R signal
 BNC 1 input (loop-through)
 Corresponding format 1035i/59.94/60
 1080i/59.94/60 1080/24pSF
 720p/59.94/60 (type 1 only)

* Input 1 channel can be added by using optional extension module.

SDTV :

RGB or Y,P_B,P_R signal
 BNC 1 input (loop-through)
 Corresponding format 525i/59.94
 625i/50

* Same input terminal as HDTV

* Input 1 channel can be added by using optional extension module.

Input Level

HDTV :

RGB/Y,P_B,P_R (SMPTE274M/296M) input
 Y,G,R,B input V : 700mVp-p positive
 S : 300mVp-p
 P_B,P_R input V : 350mVp-p positive
 Sync signal input 300mVp-p
 HD SDI input (option) 800mVp-p 10% (Rated value)

SDTV :

Composite signal input VS : 1.0Vp-p positive
 (option) V : 0.7Vp-p positive
 Sync signal input 0.3 ~ 6Vp-p negative
 RGB signal input VS : 1.0Vp-p positive
 V : 0.7Vp-p positive

*In case sync signal on all R,G,B signals, sync signal on only G signal and no sync signal on all R,G,B signals.

Y,P_B,P_R signal input (SMPTE/N10)

Y WHITE level : 700mVp-p
 SETUP level : 0mVp-p
 SYNC level : 300mVp-p
 P_B,P_R 525mVp-p (100/0/7.5/75/7.5 Color Bar)

*Other signals except for standard signal can be changed by front panel.

SD SDI input Rated value 800mVp-p (option)

Input Impedance

HDTV :

RGB/Y,P_B,P_R input : High impedance bridge connection or 75 Ω termination (75 Ω termination plug is an option.)

HD SDI input : 75 Ω termination only

SDTV :

Composite input, Sync input: RGB input, Y,P_B,P_R input: High impedance bridge connection or 75 Ω termination (75 Ω termination plug is an option.)

SD SDI input : 75 Ω termination

PERFORMANCE

CRT

In-line gun, Dot-shadow mask, high resolution CRT

Dot Trio Pitch

HTM-1005R : 0.28mm
 HTM-1505R/CS (Type 1) : 0.28mm
 HTM-2050R : 0.28mm

Horizontal Resolution (at picture center)

HTM-1005R : 500TV lines or more (at HDTV)
 HTM-1505R/CS : 750TV lines or more (at HDTV)
 HTM-2050R : 900TV lines or more (at HDTV)

Maximum Brightness

HTM-1005R : 200cd/m² or more
 HTM-1505R/CS : 240cd/m² or more
 HTM-2050R : 170cd/m² or more

* 100% Window Signal, BRIGHTNESS PRESET, CONTRAST MAX

VIDEO SIGNAL SYSTEM

Frequency Response

HDTV :

HTM-2050R ———— 60Hz ~ 25MHz +1dB/-3dB
 25MHz ~ 30MHz 3dB
 HTM-1505R/CS ———— 60Hz ~ 25MHz +1dB/-3dB
 HTM-1005R ———— 60Hz ~ 17MHz +1dB/-3dB

SDTV :

HTM-2050R ———— 60Hz ~ 10MHz +1dB/-3dB
 HTM-1505R/CS ———— 60Hz ~ 10MHz +1dB/-3dB
 HTM-1005R ———— 60Hz ~ 7MHz +1dB/-3dB

● Sag within 5%

● Black Level Stability within 1% (APL 10% ~ 90%)

Noise

HTM-2050R ———— Coherent Noise : -46dB or more
 Hum Noise : -50dB or more
 Random Noise : -50dB or more
 HTM-1505R/CS ———— Coherent Noise : -40dB or more
 Hum Noise : -40dB or more
 Random Noise : -40dB or more
 HTM-1005R ———— Coherent Noise : -40dB or more
 Hum Noise : -40dB or more
 Random Noise : -40dB or more

DEFLECTION/SYNC SYSTEM

Scan

HDTV

Normal scan (16:9) / Under scan (16:9) / HD 4:3 scan (The expansion of 4:3 area)

SDTV

Normal scan (4:3/16:9) / Under scan (4:3/16:9)

Deflection Distortion

Within 1% of picture height (Distortion linearity and raster distortion)

Sync Stability

Operation will be stable when the input signal falls within the following parameters ;

Internal sync : ± 6dB in rated video input level values

External sync : External sync input level is 0.3~6Vp-p

Convergence

Within circle of 90% of picture height : within 0.4mm
 Within circle of 90% of picture width : within 0.5mm

HIGH VOLTAGE

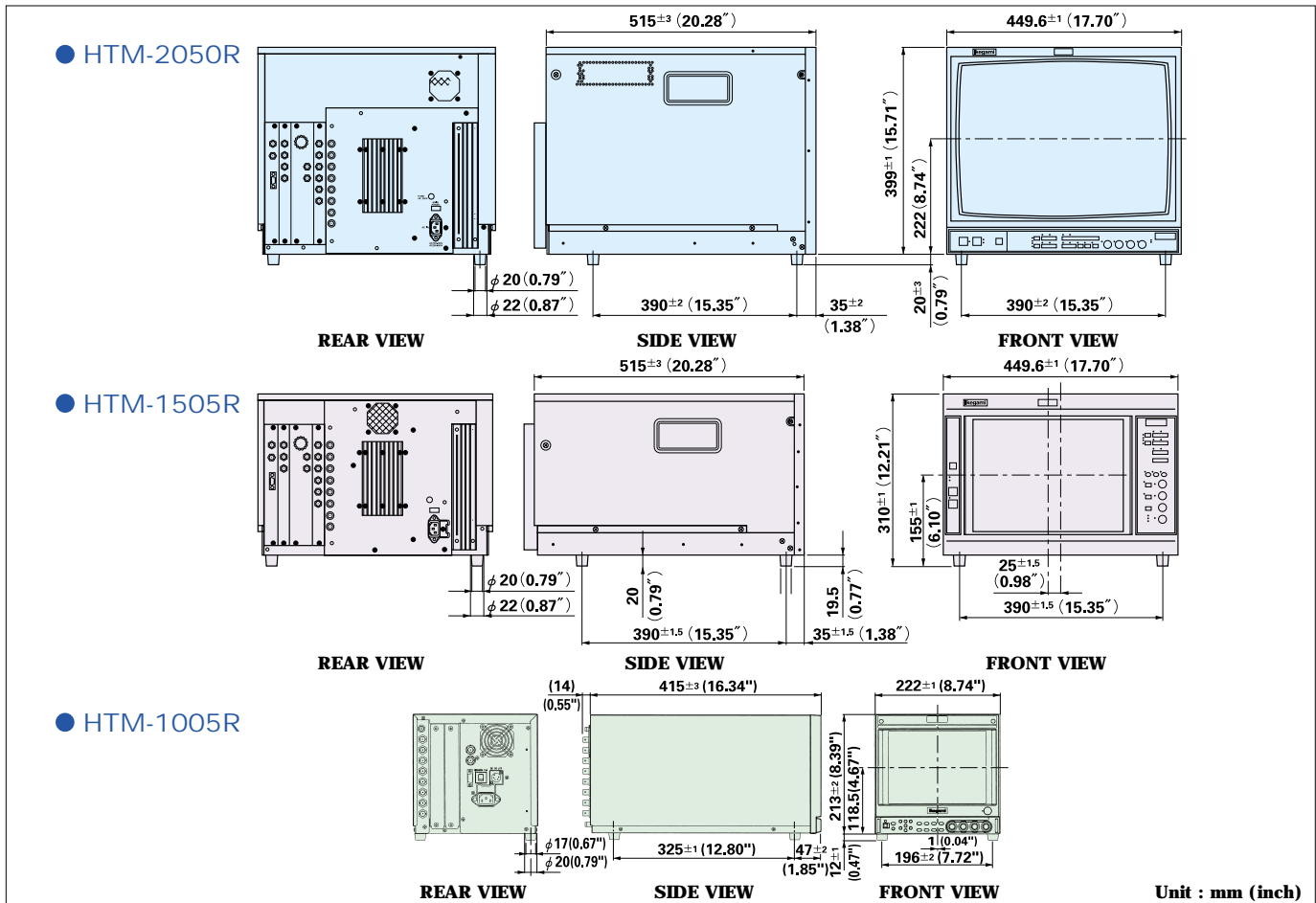
Tolerance : 19 kV ± 1kV (HTM-1005R)
 : 25 kV ± 1kV (HTM-1505R/CS)
 : 26 kV ± 1kV (HTM-2050R)

Voltage fluctuation : Within ± 0.5% for beam current of between 0~600uA (with 100uA as reference) (HTM-2050R/1505R/CS)
 0~300uA (HTM-1005R)

HTM-2050R HTM-1505R/CS HTM-1005R

HDTV/SDTV
Multi-Format Color Monitor

| | Model | Description | Remarks |
|--|-----------------------|--|----------------------------|
| New Option 20" & 15" HTM-series | DKM-501A | Multi-SDI 2 inputs module (HD-SDI/SD-SDI) | Higher performance |
| | DKM-501A-AV or AVD | Multi-SDI 2 inputs and Embedded Audio Outputs module | Analog or AES/EBU Audio |
| | DKM-501B | Multi-SDI 2 inputs module (HD-SDI/SD-SDI) | Standard |
| | DKM-501B-AV or AVD | Multi-SDI 2 inputs and Embedded Audio Outputs module | Analog or AES/EBU Audio |
| | DAM-508 | Audio level indicator | 8ch Audio |
| DAM-504 | Audio level indicator | 4ch Audio | |
| New Option 10" HTM-series | DKM-1051 | Multi-SDI 2 inputs module (HD-SDI/SD-SDI switchable) | Standard |
| | DKM-1051AV or AVD | Multi-SDI 2 inputs and Embedded Audio Outputs module | Analog or AES/EBU |
| | DAM-1058 | Audio level indicator | 8ch Audio |
| | DAM-1054 | Audio level indicator | 4ch Audio |
| General Option HTM-Series Monitors | DK-801 | SD SDI 4:2:2 digital component 2 inputs module | 20" & 15" HTM-series |
| | DK-802N | SD SDI digital composite 2 inputs module | 20" & 15" HTM-series |
| | DK-8012 | SD SDI digital component/composite 2 inputs module | 20" & 15" HTM-series |
| | DE-801 | NTSC 3 line comb decoder module | 20" & 15" HTM-series |
| | DE-802 | PAL comb decoder module | 20" & 15" HTM-series |
| | DCH-501 | Dual component input module | 20" & 15" HTM-series |
| | EX-801A | Test extender board | 20" & 15" HTM-series |
| | DK-1051 | SD SDI 4:2:2 digital component 2 inputs module | 10" HTM-series |
| | DK-1052N | SD SDI NTSC 4fsc digital composite 2 inputs module | 10" HTM-series |
| | DE-1051 | NTSC decoder module | 10" HTM-series |
| | EX-1051A | Test extender board | 10" HTM-series |
| | SRC-301A | Serial remote controller | All HTM series |
| | Rack Mmount Adaptor | Slide rail and rack metal | Each type for monitor size |
| | ASP-80 | Auto set-up probe | All HTM series |



Design and specifications are subject to change without notice.

Ikegami

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