SONY® DIGITAL SATELLITE MODULATOR DSM-T1

OPERATION MANUAL English 1st Edition Serial No. 10001 and Higher

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WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

For the customers in the USA

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

WARNING: THIS WARNING IS APPLICABLE FOR USA ONLY.

If used in USA, use the UL LISTED power cord specified below.

DO NOT USE ANY OTHER POWER CORD.

Parallel blade with ground pin
(NEMA 5-15P Configuration)
Type SJT, three 16 or 18 AWG wires
Less than 2.5 m (8 ft. 3 in.)
Minimum 10A, 125 V

Using this unit at a voltage other than 120 V may require the use of a different line cord or attachment plug, or both. To reduce the risk of fire or electric shock, refer servicing to qualified service personnel.

For the customers in the United Kingdom

WARNING THIS APPARATUS MUST BE EARTHED

IMPORTANT

This wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow:Earth Blue: Neutral Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol $\frac{1}{2}$ or coloured green or green-and-yellow.

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Features	
Locations and Functions of Parts and Controls	5
Front Panel	5
Rear Panel	8
Menu Setup	
Initial Display	
Changing the Parameters	
Saving the Parameters in Menu Banks	
Recalling the Parameters from Menu Banks	
Menu List	
Connection	14
Operation Warnings	
Error Messages	
Warning Messages	15
Specifications	16

The DSM-T1 Digital Satellite Modulator modulates analog video and audio input signals into digital signals. This modulator enables an SNG (Satellite News Gathering) system in combination with the DSM-R1 Digital Satellite Demodulator. The following are some of the features of the DSM-T1.

Easy Installation

The DSM-T1 provides easy connection with an existing SNG system via IF OUT (Intermediate Frequency output).

High quality compression algorithm

MPEG2 4:2:2 profile at Main Level (4:2:2 P@ML) ensures superior picture quality at 18 MHz transmission bandwidth.

Direct digital transmission at up to twice real time

The DSM-T1 enables transmission at up to twice real time speed at 36 MHz transmission bandwidth with connection of a DNW-A100/A100P digital video cassette recorder through the SDTI ¹ (Serial Data Transport Interface). This feature contributes to increase of news gathering productivity.

Optional interface boards available

The BKSM-T101 SDTI Input Board, the BKSM-T102 SDI Input Board, and the BKSM-T103 Analog Input Board provide flexible choices of installing one or two boards to this unit.

Two-program Transmission

Two multiplexed video and audio signals can be transmitted simultaneously at 36 MHz transmission bandwidth. This contributes to lower transmission costs.

1) SDTI is defined as SMPTE 305M.

Locations and Functions of Parts and Controls

Front Panel



1 POWER switch

Turns the power on and off.

2 PANEL INH (inhibiting panel buttons) indicator and switch

Set the PANEL INH switch to ON to deactivate the MENU, ENTER, ITEM / 4, and cursor (/ 7 / 4) buttons.

When the PANEL INH switch is set to ON, the PANEL INH indicator lights up.

3 OPTION (optional boards) indicators IN1 indicators

- **SDTI:** Lights up when the BKSM-T101 SDTI Input Board is installed in the IN **1** section of the unit.
- **SDI:** Lights up when the BKSM-T102 SDI Input Board is installed in the IN **1** section of the unit.

ANALOG: Lights up when the BKSM-T103 Analog Input Board is installed in the IN 1 section of the unit.

IN2 indicators

- **SDTI:** Lights up when the BKSM-T101 SDTI Input Board is installed in the IN² section of the unit.
- **SDI:** Lights up when the BKSM-T102 SDI Input Board is installed in the IN² section of the unit.
- ANALOG: Lights up when the BKSM-T103 Analog Input Board is installed in the IN² section of the unit.

4 INPUT SEL (input selection) indicators

IN1: Lights up when input signals from the optional board in the IN[1] section are transmitted from the IF OUT connector.

IN2: Lights up when input signals from the optional board in the IN2 section are transmitted from the IF OUT connector.

When input signals from both optional boards are simultaneously transmitted, both indicators light up. To select from which optional board section input signals are transmitted, select "01: INPUT SELECT" in the menu.

When no signals are supplied to the selected board slots, the indicator flashes. If the destination address of the input signals and the address selected in the menu are different when the BKSM-T101 SDTI Input Board is installed, the indicator also flashes. To select the address of this unit, select "43: My ADDR-1""53:MY ADDR-2" in the menu.

For more information, see "Menu Setup" (page 10).

5 AUDIO SEL indicators IN1 indicators

CH1/2: Lights up if input signals from the optional board in the IN[1] section are transmitted when;
The FEC RATE is 7/8

- or
- The FEC RATE is 3/4 and IN1 AUDIO CH is CH1/CH2.
- **CH3/4:** Lights up if input signals from the optional board in the IN 1 section are transmitted when; - The FEC RATE is 7/8
 - or

- The FEC RATE is 3/4 and IN1 AUDIO CH is CH3/CH4.

When the BKSM-T103 Analog Input Board is installed and 3-pin XLR connectors are used, the indicator does not light regardless of the FEC RATE selection.

To select the FEC rate, select "12: FEC RATE" in the menu.

To select the audio channels for the optional board in the IN¹ section, select "47: IN1 AUDIO CH" in the menu.

For more information, see "Menu Setup" (page 10).

IN2 indicators

- The FEC RATE is 3/4 and IN2 AUDIO CH is CH1/CH2.

CH3/4: Lights up if input signals from the optional board in the IN2 section are transmitted when;The FEC RATE is 7/8

or

- The FEC RATE is 3/4 and IN2 AUDIO CH is CH3/CH4.

When the BKSM-T103 Analog Input Board is installed and 3-pin XLR connectors are used, the indicator does not light up regardless of the selection of the FEC RATE.

To select the FEC rate, select "12: FEC RATE" in the menu.

To select the audio channels for the optional board in the IN[2] section, select "57: IN2 AUDIO CH" in the menu.

For more information, see "Menu Setup" (page 10).

6 REF (reference signal) indicators

IN1: Lights up when the reference signals are video signals from the input connectors of the optional board in the IN1 section.

IN2: Lights up when the reference signals are video signals from the input connector of the optional board in the IN[2] section.

EXT: Lights up when the reference signals are video signals from the REF IN connector.

With no signal supplied to the selected input

connectors, the indicator flashes.

To select the reference signals, select "02: REF SELECT" in the menu.

For more information, see "Menu Setup" (page 10).

7 VIDEO STD (video standard) indicators

- **525:** Lights up when the unit is set up in the 525 standard.
- **625:** Lights up when the unit is set up in the 625 standard.

To select the broadcasting standard, select "03: VIDEO STD" in the menu.

For more information, see "Menu Setup" (page 10).

CH1/2: Lights up if input signals from the optional board in the IN2 section are transmitted when;The FEC RATE is 7/8

or

8 FREQ BW (frequency bandwidth) indicators

36M: Lights up when the frequency bandwidth is 36 MHz.

18M: Lights up when the frequency bandwidth is 18 MHz.

To select the frequency bandwidth, select "11: FREQ BW" in the menu.

For more information, see "Menu Setup" (page 10).

9 FEC RATE (Forward Error Correction rate) indicators

7/8: Lights up when the FEC rate is 7/8.3/4: Lights up when the FEC rate is 3/4.To select the FEC rate, select "12: FEC RATE" in the menu.

For more information, see "Menu Setup" (page 10).

1 ALARM indicator

When a fault is detected while the unit is in operation, the ALARM indicator lights up. In this case, a warning message (0X WARNING) appears in the display window. The ALARM indicator turns off when the operation returns to normal.

For more information about warning messages, see "Operation Warnings" (page 15).

1 Display window

Normally displays the output carrier frequency. When you press the MENU button, the menu appears. When all the indicators flash, an error message (ERROR-XX) appears. When the ALARM indicator lights up, a warning message (0X WARNING) appears.

MENU button

Displays the menu in the display window. When you press the MENU button, its back lighting lights up. Press again to clear the menu. When the menu is cleared, the back lighting for the MENU button turns off.

For more information about the menu, see "Menu Setup" (page 10).

B ENTER button

Saves the parameters in the current bank or memory banks.

1 ITEM ↑/↓ buttons

Select the menu item when the menu is displayed in the display window.

(5 Cursor $(\blacktriangle/\bigtriangledown/\checkmark/\blacktriangleright)$ buttons

Use the \blacktriangle or \blacktriangledown button to change the parameters. Use the \blacktriangleleft or \blacktriangleright button to move a digit to the left or right.

1 RESET button

Resets the unit to the status present when the power has been turned on. Use a sharp-pointed object to press this button.

Locations and Functions of Parts and Controls

Rear Panel



1 IN **1** section

Install any one of the optional boards in this section.

2 IN **2** section

Install any one of the optional boards in this section.

For more information about installing the optional boards, refer to the Installation Manual.

3 REF IN (reference signal input) connector (BNC type)

Inputs the reference video signals from external equipment.

4 SPARE connector (D-sub 25 pin, female) This connector is for future use.

5 IF OUT (Intermediate Frequency output)

connector (BNC type)

Outputs modulated IF signals to an up-converter.

6 IF MONITOR connector (BNC type)

Outputs IF signals to an IF monitor such as a spectrum analyzer.

7 *h* (ground) jack

Connects to a ground wire.

8 BREAKER button

Excessive current in the internal circuitry, will trip the primary circuit breaker, automatically cutting off the power. After checking that the problem has been corrected, press the BREAKER button to restore the power.

9 ~ AC IN socket

Connects to an AC power outlet using the optional AC power cord. This socket accepts 100 to 240 V AC power.

(D SDTI (Serial Data Transport Interface) connector (BNC type)

Inputs digital video and audio signals in SDTI (SX) format from the SDTI output connector on the DNW-A100/A100P Digital Video Hybrid Recorder, etc.

(1) SDI (Serial Digital Interface) connector (BNC type)

Inputs digital video and audio signals in SDI format from the SDI output connector on the DVW-A500/ A500P Digital Video Cassette Recorder, etc.

AUDIO (AES/EBU) connectors (BNC type)

Input 2-channel digital audio signals in AES/EBU format from the AES/EBU audio output connectors on external equipment.

- CH 1/2: Inputs AES/EBU audio signals on channels 1 and 2.
- **CH 3/4:** Inputs AES/EBU audio signals on channels 3 and 4.

1 VIDEO connector (BNC type)

Inputs composite analog video signals from the video output connector on the BVW-75/75P Video Cassette Recorder, etc.

AUDIO connectors (XLR type, 3-pin, female)

Input analog audio signals (2 channels) from the audio output connectors on the BVW-75/75P Video Cassette Recorder, etc.

CH 1: Inputs analog audio signals on channel 1.

CH 2: Inputs analog audio signals on channel 2.

AUDIO connectors (XLR type, 5-pin, male)

Input analog audio signals (4 channels) from the audio output connectors on the BVW-75/75P Video Cassette Recorder, etc.

- **CH 1/2:** Inputs analog audio signals on channel 1 and 2.
- **CH 3/4:** Inputs analog audio signals on channel 3 and 4.

The 5-pin XLR type can be converted to the 3-pin XLR (2 channels) with the optional CCXA-53 audio cable. The ITT CANNON XLR-3-11-11 conversion adapter can be also used to convert to the 3-pin XLR.

Menu Setup

A menu is provided to set up the operating conditions of the unit. Menu items include basic items, items about the optional boards, items about the front panel, etc.

For more information about menu items, see "Menu List" (page 12).

A "current bank" and 8 "menu banks" are provided with the unit. The current bank can be used to store current parameters. The menu banks can be used to store up to 8 sets of parameters. Saving/recalling frequently used parameters in/from menu banks allows faster setting up of the unit's operating conditions.

Initial Display

Switching the power on causes the selected parameter of "15: IF OUT LEVEL" and "16: CARRIER" on the menu to appear in the display window.

Changing the Parameters

Follow the procedure below to change the parameters and save them in the current bank.



Press the MENU button.

The back lighting for the MENU button lights up, and the menu appears in the display window.

- **2** Select a menu item to be changed using the ITEM \uparrow or \checkmark button.
- **3** Change the parameters using the \blacktriangle or \blacktriangledown button. Use the \blacktriangleleft or \blacktriangleright button to move a digit to the left or right.

- **4** To change the parameters of other items, repeat steps 2 and 3.
- **5** Press the ENTER button.

The changed parameters are saved in the current bank. The contents of the current bank are saved even after the power is turned off.

To cancel changing parameters Press the MENU button before pressing the ENTER button.

6 Press the MENU button.

The back lighting for the MENU button turns off, and the unit exits the menu.

To return the contents of the current bank to the factory setting

Follow the procedure below.

1 Press the MENU button.

The back lighting for the MENU button lights up, and the menu appears in the display window.

- **2** Select "93: FACTORY SET" using the ITEM \uparrow or \checkmark button.
- **3** Press the ENTER button.

The contents of the current bank return to the factory setting.

To cancel returning to the factory setting Press the MENU, ITEM \uparrow or \checkmark button before pressing the ENTER button.

- **4** Press the MENU button.

The back lighting for the MENU button turns off, and the unit exits the menu.

Saving the Parameters in Menu Banks

Menu banks are provided with the unit as well as the current bank. The menu banks can store the 8 sets of parameters saved in the current bank.

Follow the procedure below to save the set of parameters in menu banks.



Press the MENU button.

The back lighting for the MENU button lights up, and the menu appears in the display window.

- **2** Select "91: SAVE BANK" using the ITEM \uparrow or \checkmark button.
- **3** Select the number of the menu bank in which the contents of the current bank to be saved using the \blacktriangle or \checkmark button.
- Press the ENTER button.

The contents of the current bank are saved in the selected menu bank. The contents of the menu bank are saved even after the power is turned off.

To cancel saving in the menu bank Press the MENU, ITEM \uparrow or \checkmark button before pressing the ENTER button.

5 Press the MENU button.

The back lighting for the MENU button turns off, and the unit exits the menu.

Recalling the Parameters from Menu Banks

Follow the procedure below to recall the set of parameters from the menu banks.



1 Press the MENU button.

The back lighting for the MENU button lights up, and the menu appears in the display window.

- 2 Select "92: RECALL BANK" using the ITEM ↑ or \checkmark button.
- **3** Select the number of the desired menu bank to recall the contents into the current bank using the \blacktriangle or \checkmark button.
- **4** Press the ENTER button.

The contents of the selected menu bank are recalled to the current bank.

To cancel recalling from the menu bank Press the MENU, ITEM \uparrow or \checkmark button before pressing the ENTER button.

5 Press the MENU button.

The back lighting for the MENU button turns off, and the unit exits the menu.

Menu List

Menu items are classified as one of the following categories:

- Basic items (01~ and 10~)
- Items about an optional board in the IN 1 section on the rear panel (40~)
- Items about an optional board in the IN **2** section on the rear panel (50~)
- Items about the front panel (80~)
- Items about the saving and recalling functions (90~)

The parameters in bold print are factory settings.

Item number	ltem	Parameter	Function
01	INPUT SELECT	IN1 IN2 IN1&IN2	Selects either or both IN1 or IN2 section input signals to be transmitted from the IF OUT connector. IN1: The input signals from the optional board in the IN1 section are transmitted. IN2: The input signals from the optional board in the IN2 section are transmitted. IN1&IN2: The input signals from both optional boards in the IN1 and IN2 sections are transmitted.
02	REF SELECT	EXT IN1 IN2	Selects the reference signals. EXT: Video signals from the REF IN connector IN1: Video signals from the input connector of the optional board in the IN1 section. IN2: Video signals from the input connector of the optional board in the IN2 section.
03	VIDEO STD	525 625	Selects the broadcasting standard for which the unit is set up. 525: 525 standard 625: 625 standard
08	PASSWORD	OFF ON 0000 0001 : FFFF FFFF	Turns the password function on or off. When "ON" is selected, set the password. OFF: The DSM-R1 outputs normal video/audio signals regardless of the password of the DSM-R1. ON: Sets an 8 digits password. If the password of the unit does not match that of the DSM-R1, no video/audio signals will be output from the DSM-R1.
11	FREQ BW	36 MHz 18 MHz	Selects the frequency bandwidth.
12	FEC RATE	7/8 3/4	Selects the Forward Error Correction rate.
14	IF FREQ	140 MHz 70 MHz	Selects the output carrier frequency of the IF OUT connector.
15	IF OUT LEVEL	0dB 10dB <-10dB -20dB	Selects the output level of the IF OUT connector. In 0dB10dB mode, the level can be set from 0dB to -10dB in 1dB steps. In <-10dB mode, the level can be set from -10dB to -20dB, but the displayed parameter is <-10dB.
16	CARRIER	QPSK OFF CW	Selects whether or not to modulate the IF output signals. QPSK: Outputs QPSK modulated wave OFF: Outputs no IF signals CW: Outputs continuous (non modulated) wave
41	IN1 SDI AUDIO	SDI AES/EBU	Selects the digital audio input signals if the BKSM-T102 SDI Input Board is installed in the IN1 section of the unit. SDI: Digital audio signals in SDI format AES/EBU: Digital audio signals in AES/EBU format
42	IN1 EMPHASIS	OFF ON	Turns the audio emphasis function on or off if the BKSM-T103 Analog Input Board is installed in the IN 1 section of the unit.

Item number	ltem	Parameter	Function
43	MY ADDR-1	0000 0000…FFFF	Sets an address for the unit itself if the BKSM-T101 SDTI Input Board is installed in the IN1 section of the unit. When the address matches the destination address of the input signals, the unit receives them.
47	IN1 AUDIO CH	CH1/CH2 CH3/CH4 ALL CH1-CH4	Selects the audio input signal channels to the IF OUT connector when an optional board is installed in the IN 1 section of the unit. CH1/CH2: Inputs audio signals on channel 1 and 2. CH3/CH4: Inputs audio signals on channel 3 and 4. ALL CH1-CH4: Inputs audio signals on all channels. (When the FEC RATE is set to 7/8, ALL CH1-CH4 is selected automatically.) When the BKSM-T103 Analog Input Board is installed and 3-pin XLR connectors are used, CH1/CH2 is selected automatically regardless of the FEC RATE selection.
48	IN1 V SETUP	0.0%… 7.5% …10.0%	Sets the VIDEO SETUP volume to be removed from the input signals when the BKSM-T103 Analog Input Board is installed in the IN $[1]$ section of the unit. Select from 0.0% to 10.0% in 0.5% steps. The parameter should be the same as that of the OUT1 V SETUP of DSM-R1 menu. This is applicable to NTSC video signals. For PAL, only 0.0% can be selected.
51	IN2 SDI AUDIO	SDI AES/EBU	Selects the digital audio input signals if the BKSM-T102 SDI Input Board is installed in the IN[2] section of the unit. SDI: Digital audio signals in SDI format AES/EBU: Digital audio signals in AES/EBU format
52	IN2 EMPHASIS	OFF ON	Turns the audio emphasis function on or off if the BKSM-T103 Analog Input Board is installed in the IN2 section of the unit.
53	MY ADDR-2	0000 0000…FFFF	Sets an address for the unit itself if the BKSM-T101 SDTI Input Board is installed in the IN2 section of the unit. When the address matches the destination address of the input signals, the unit receives them.
57	IN2 AUDIO CH	CH1/CH2 CH3/CH4 ALL CH1-CH4	Selects the audio input signal channels to the IF OUT connector when an optional board is installed in the IN2 section of the unit. CH1/CH2: Inputs audio signals on channel 1 and 2. CH3/CH4: Inputs audio signals on channel 3 and 4. ALL CH1-CH4: Inputs audio signals on all channels. (When the FEC RATE is set to 7/8, ALL CH1-CH4 is selected automatically.) When the BKSM-T103 Analog Input Board is installed and 3-pin XLR connectors are used, CH1/CH2 is selected automatically regardless of the FEC RATE selection.
58	IN2 V SETUP	0.0%… 7.5% …10.0%	Sets the VIDEO SETUP volume to be removed from the input signals when the BKSM-T103 Analog Input Board is installed in the IN[2] section of the unit. Select from 0.0% to 10.0% in 0.5% steps. The parameter should be the same as that of the OUT2 V SETUP of DSM-R1 menu. This is applicable to NTSC video signals. For PAL, only 0.0% can be selected.
81	LCD CONTRAST	1 5 10	Adjusts the contrast of the display window.
82	LCD BACKLIGHT	1 5 10	Adjusts the brightness of the display window back lighting.
91	SAVE BANK	18	Selects the menu bank in which the parameters in the current bank are to be saved.
92	RECALL BANK	18	Selects the menu bank in which the parameters to be recalled are saved.
93	FACTORY SET		Resets the parameters in the current bank to the factory setting.

The illustration below shows a typical connection of the unit for digital Satellite News Gathering.

• There are two kinds of connectors on the BKSM-T103 Analog Input Board, 3-pin XLR or 5-pin XLR connector. When using the 5-pin XLR connector, see also the next page.

• For more information about connecting external equipment, refer to the equipment operation manuals.



Rear പിറ \bigcirc 0(.... 0-0 ollo **REF IN** to test signal output Signal generator (Sony Tektronix TSG-170A for the NTSC broadcasting standard. Sonv Tektronix TSG-271 for the PAL broadcasting standard, etc.) to signal output BKSM-T103 Analog Input Board AUDIO CH3/4 VIDEO 1) AUDIO CH1/2 1) to analog composite to analog to analog audio output audio output video (channel 1 and 2) (channel 3 and 4) output to reference BVW-75/75P Video Cassette signal input Recorder, etc. 1) With the 5-pin XLR connector, use the optional CCXA-53 conversion audio cable or the conversion adapter.

When using the 5-pin XLR connector

Setting a password

If the PASSWORD is set to "ON" in the menu, set a password for the unit so that it matches that of the DSM-R1. If the password of the unit does not match that of the DSM-R1, the "PASSWORD INCORRECT" warning message appears in the diamber window of the DSM P1 and no and is (video

display window of the DSM-R1 and no audio/video signals are output from the DSM-R1.

If the PASSWORD is set to "OFF" in the menu, the DSM-R1 outputs the audio/video signals regardless of the password of the DSM-R1.

For more information, see "Menu Setup" (page 10).

Error Messages

When a fault is detected by the self-diagnosis function that automatically performs after the power is turned on, all the indicators flash and an error message (ERROR-XX) appears in the display window. The indicators do not turn off until the power is turned off.

For more information about error messages, refer to the Maintenance Manual.

Warning Messages

When a fault is detected while the unit is in operation, the ALARM indicator lights up and a warning message (0X WARNING) appears in the display window. When the operation returns to normal, the ALARM indicator turns off.

Use the list below to check the meaning of the warning messages.

Warning number	Message	Meaning
01	FAN (REAR) STOP	The rear fan has stopped running.
02	FAN (SW REG) STOP	The internal fan has stopped running.
03	REF UNLOCK	This unit is not synchronized with the reference signal selected with REF SELECT in the menu.
04	IN1 DATA OVERFLOW	Inputted signals from the BKSM-T101 SDTI Input Board in the IN1 section have oveflowed and are not being transmitted.
05	IN2 DATA OVERFLOW	Inputted signals from the BKSM-T101 SDTI Input Board in the IN[2] section have oveflowed and are not being transmitted.

Specifications

General

Power voltage	AC 100 to 240 V, 50/60 Hz
Current consumption	1.2 A to 0.6 A
Operating temperature	0° C to 40° C
	(32°F to 104°F)
Operating humidity	10% to 90%
	(non condensing)
Storage temperature	-20° C to $+60^{\circ}$ C
	$(-4^{\circ}F \text{ to } +140^{\circ}F)$
Dimensions	$424 \times 43.6 \times 525 \text{ mm} (\text{w/h/d})$
	$(16^{3}/_{4} \times 1^{3}/_{4} \times 20^{3}/_{4} \text{ inches})$
Mass	8 kg (17 lbs 10 oz) (when
	two BKSM-T102 are
	installed)
Transmission mode	IF bandwidth: 18 MHz
	1 channel, real time
	IF bandwidth: 36 MHz
	1 channel, twice real time
	(when the BKSM-T101 is
	installed) or 2 channels,
	real time
Carrier bandwidth	IF bandwidth: 18 MHz
	18 MHz at -40 dB point
	IF bandwidth: 36 MHz
	36 MHz at -40 dB point
Modulation	QPSK
IF (Intermediate Frequen	cy)
	70 or 140 MHz selectable
Error correction	$Reed\mbox{-}solomon\mbox{+}convolution$
	(R=7/8, 3/4)

When the BKSM-T103 is installed:

VIDEO: composite analog, BNC type \times 1, 1.0 V p-p, 75Ω **REF IN:** composite analog, BNC type \times 1, 1.0 V p-p, 75 Ω

Audio characteristics

Audio input connectors

The second second	
_	When the BKSM-T101 is
	installed:
	SDTI: SDTI-embedded
	When the BKSM-T102 is
	installed:
	AUDIO (AES/EBU): SDI-
	embedded, BNC type $\times 1$ or
	AES/EBU, BNC type $\times 2$,
	selectable
	When the BKSM-T103 is
	installed:
	3-pin XLR × 2 (female)
	AUDIO CH1: analog audio
	AUDIO CH2: analog audio
	+4 dBu, High impedance
	5-pin XLR × 2 (male)
	AUDIO CH1/2: analog audio
	AUDIO CH3/4: analog audio
	+4 dBu, High impedance
Channels/source	4 (R=7/8), 2 (R=3/4)
Sampling frequency	16 bits/48 kHz

Video characteristics

Compression MPEG2 4:2:2P@ML Video input connectors When the BKSM-T101 is installed: SDTI (SX): BNC type $\times 1$,

 75Ω SMPTE 305M When the BKSM-T102 is installed: SDI: BNC type \times 1, 75 Ω SMPTE-259M/ ITU-R.BT.656-3

IF characteristics

IF output connectors IF OUT: BNC type $\times 1$, 75 Ω , -20 dBm to 0 dBm, 70/140 MHz selectable **IF MONITOR:** BNC type \times 1, 75 Ω , -10 dB for the IF OUT

Supplied accessories

Operating Manual (1) Installation Manual (1)

Optional boards

BKSM-T101 SDTI Input Board BKSM-T102 SDI Input Board BKSM-T103 Analog Input Board

Optional accessories

RMM-30 Rack Mount Rail CCXA-53 conversion audio cable (5-pin XLR \leftrightarrow 3-pin XLR \times 2)

Design and specifications are subject to change without notice.

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