

New Product

**Realizing Long-duration HD Recording – Maximum 16 Hours on One Blu-ray Disc¹
Four New Blu-ray Disc Recorders Allow Users to Choose their HD Viewing Style**



Photo Left: "BDZ-T70" (Above) "BDZ-T50" (Below) Center: "BDZ-X90" Right: "BDZ-L70"

Sony today announces four new Blu-ray Disc Recorders. These new models offer strengthened functionality to give improved performance in the key areas of "high picture and sound quality," "long-duration recording," and "easy operation." HD content in the home is rapidly increasing, whether it be digital broadcasting, personal/home video or movies. Sony envisions the Blu-ray Disc Recorder at the center of the HD era, and the four new models target three styles of customer viewing enjoyment: "HD broadcasting enjoyment," "personal/home video enjoyment" and "advanced picture and advanced sound quality home theater enjoyment." This range of choice will be a key factor in accelerating the diffusion of the Blu-ray format.

Blu-ray Disc Recorder Lineup with digital HD tuner and HDD

| Style | Model | Release | Suggested Retail Price |
|--------------------------------|---------|------------|------------------------|
| Enjoying Broadcasts T | BDZ-T50 | November 8 | Open Price |
| | BDZ-T70 | | |
| Enjoying Personal/Home Video L | BDZ-L70 | | |
| Enjoying Home Theater X | BDZ-X90 | | |

Blu-ray Disc will be referred to as BD below.

● Major New Functions (available on all models)

1. Ample HD recording capacity: A new high-resolution HD encoder, adopting the high compression efficiency of MPEG4-AVC, allows ample HD recording capacity. A maximum of approximately 16 hours can be recorded on one 50GB BD¹ and the HDD's capacity has been increased 3.8 times for a maximum recording capacity of about 166 hours.²

2. Fast HD dubbing: One hour of HD video can be dubbed to BD in a minimum time of approximately 3 minutes.³

3. High-quality HD picture and sound playback: “24p True Cinema” and “HD audio-compatible HDMI audio output”

4. HD Handycam compatibility: Handycam video (AVCHD) can be transferred to HDD and easily edited. It can then be stored in HD on BD.

5. BRAVIA Link: Compatible with BRAVIA Link and BRAVIA Premium Photo

(1) When recording to a dual layer 50GB BD in LSR (AVC 6M) mode.

(2) Using “BDZ-X90” and recording in LSR (AVC 6M) mode.

(3) When one hour of video recorded in LSR mode onto a HDD is dubbed to BD (4x speed).

Main Features of Each Style

Enjoying Broadcasts T

-- Ample Capacity to Record and Enjoy HD Broadcasts (“BDZ-T70” “BDZ-T50”) --



1. “Ample HD Recording” function gives a maximum of approximately 105 hours⁴ HD recording on HDD and a maximum of approximately 16 hours¹ on one 50GB BD (Available on all models.)

(*4) Using “BDZ-T70” and recording in LSR (AVC 6M) mode.

2. The “Keyword-relational Search” function and the “x-Omakase Maruroku (Auto AI recording)”(allowing simultaneous recording of two programs¹) mean that viewers can catch all their favorite programs (Available on all models).

3. Just one touch of the remote control button gives simple and fully automated operation from startup to panel display (Available on all models).

Enjoying Personal/Home Video L

-- Personal and Home HD Video Content Stored in Pristine Condition (“BDZ-L70”) --



1. “One-Touch Dubbing Button” allows one-touch transfer of HD Handycam video content to HDD.

2. “x-Pict Story HD” assembles digital snaps and automatically creates “Pro-quality” slideshows. This can then be stored in HD on BD. Also available on “BDZ-X90”.

2. “x.v.Color” offers advanced reproduction of video with a wide color range, and “full HD photo reproduction” is also available. These functions enhance the beauty of videos and photos for the full enjoyment of the user (Available on all models).

Enjoying Home Theater X

-- Experience HD Home Theater with Superb Picture Quality and Sound “BDZ-X90” --



1. DRC-MFv2.5 recreates HD signals for an even more refined and higher resolution image. Output at progressive HD 1125p (1080p).
2. “Deep Color” creates a smooth picture with rich color gradations.
3. All models have an HDMI audio output compatible with lossless audio. Further, Sony has pursued mastering studio quality through meticulous audio engineering, including the strict selection of quality audio parts.

Main Specifications

| Model | | “BDZ-X90” | “BDZ-L70” | “BDZ-T70” | “BDZ-T50” |
|-------------------------------------|--------------|--|------------|--|------------|
| Recordable Media ¹ | | BD-RE ver. 2.1 (dual layer compatible) BD-R ver. 1.1/1.2 (dual layer compatible) | | | |
| | | DVD+RW (up to 8x) DVD+R (up to 16x) DVD-RW (up to 6x, Ver.1.1/1.2)※CPRM compatible, DVD-R (up to 16x, Ver.2.0/2.1)※CPRM compatible | | | |
| | | HDD(500GB) | HDD(320GB) | HDD(320GB) | HDD(250GB) |
| Playable Media | Video | HDD, BD-ROM, BD-RE ver.2.1/ver.1.0, BD-R ver.1.1/1.2, Discs recorded in AVCHD format, DVD video, DVD+RW/+R, DVD-RW/-R/-R DL(dual layer) (video mode)/-RW(CPRM)/-R(CPRM), DualDisc ² , ※DVD+RW/+R DL(dual layer)/-RW/-R also compatible with 8cm disc. | | | |
| | Photo (JPEG) | HDD, BD-RE ver.2.1, BD-R ver.1.1/1.2, Data DVD: DVD+RW/+R/-RW/-R, Data CD: CD-RW/-R, USB (digital camera/reader-writer etc.) | | BD-RE ver.2.1, BD-R ver.1.1/1.2, Data DVD: DVD+RW/+R/-RW/-R, Data CD: CD-RW/-R | |
| | Audio | CD, DTS-CD, CD-RW/-R (CD-DA) | | | |
| Video recording format (BD/DVD/HDD) | | MPEG2, MPEG1 ³ , MPEG4-AVC (HDD/BD) | | | |
| Audio recording format (BD/DVD/HDD) | | Dolby Digital (2ch/5.1ch) ⁴ , MPEG2-AAC (when in DR mode) | | | |

(※1) Cannot record onto 8cm DVD disc. Postscripting, deletion, editing and finalizing operations may not be possible on DVD discs which have been recorded and edited on other recorders/drives. DVD discs with a speed capacity over 8x will have a maximum speed of 8x on this unit's drive.

(※2) Dual Disc has a layer conforming to the DVD standard and a music-dedicated layer. The music layer does not conform to the Compact Disc (CD) standard, and playback on this unit is therefore not guaranteed.

(※3) When recording in DVD+RW EP mode.

(※4) Not compatible with linear PCM recording.

Recording Time Capacity and Modes (HDD)^{1 2}

| Model | “BDZ-X90” ⁴ | “BDZ-L70” | “BDZ-T70” | “BDZ-T50” |
|------------------------|---|---|---|---|
| DR ³ | Digital terrestrial broadcast (HD): approx 62 hours (approx 59 hours) BS•110 □ CS digital broadcast (HD): Approx 44 hours (approx 42 hours) Terrestrial/ BS•110 □ CS digital broadcast (SD): approx 96 (approx 88 hours) HDV1080i: approx 39 hours (approx 37 hours) | Digital terrestrial broadcast (HD): approx 39 hours BS•110 □ CS digital broadcast (HD): approx 28 hours Terrestrial/ BS•110 □ CS digital broadcast (SD): approx 61 hours HDV1080i: approx 24 hours | Digital terrestrial broadcast (HD): approx 39 hours BS•110 □ CS digital broadcast (HD): approx 28 hours Terrestrial/ BS•110 □ CS digital broadcast (SD): approx 61 hours | Digital terrestrial broadcast (HD): approx 30 hours BS•110 □ CS digital broadcast (HD): approx 21 hours Terrestrial/ BS•110 □ CS digital broadcast (SD): approx 46 hours |
| XR (AVC 15M) | approx 65 hours (approx 61 hours) | approx 41 hours | approx 41 hours | approx 31 hours |
| XSR (AVC 12M) | approx 83 hours (approx 77 hours) | approx 52 hours | approx 52 hours | approx 40 hours |
| SR (AVC 8M) (standard) | approx 124 hours (approx 112 hours) | approx 78 hours | approx 78 hours | approx 60 hours |
| LSR (AVC 6M) | approx 166 hours (approx 145 hours) | approx 105 hours | approx 105 hours | approx 80 hours |
| LR (AVC 4M) | approx 249 hours (approx 221 hours) | approx 157 hours | approx 157 hours | approx 121 hours |
| ER (AVC 2M) | approx 499 hours (approx 401 hours) | approx 315 hours | approx 315 hours | approx 242 hours |

(※1) HDD recording time capacity assumes that no JPEG photos are on the HDD.

(※2) XR, XSR, SR, LSR can record at HD quality. LR, ER modes record in Standard Definition (SD).

(※3) DR mode recording time capacity is an estimate. Recording time capacity will vary according to the type of digital broadcast.

(※4) The figures in () for “BDZ-X90” HDD recording time capacity represent performance when the “High Speed Transfer Recording” function is on and the “Recording Mode” is set to “Automatic.”

Recording Time Capacity and Modes (BD/DVD)

| | | |
|-------------------|---|--|
| BD ^{1 2} | DR ³ | DR: Digital terrestrial broadcast (HD): approx. 3 hours (approx. 6hours) BS·110/CS digital broadcast (HD): approx 2 hours 10 min (approx 4 hours 20 min) Terrestrial/ BS·110/CS digital broadcast (SD): approx 4 hours 44 min (approx 9 hours 28 min) HDV1080i: approx; 1 hour 55 min (approx 3 hours 50 min) |
| | XR(AVC 15M) | approx 3 hours 10 min (approx 6 hours 20 min) |
| | XSR(AVC 12M) | approx 4 hours (approx 8 hours) |
| | SR (AVC 8M) (standard) | approx 6 hours 5 min (approx 12 hours 10 min) |
| | LSR(AVC 6M) | approx 8 hours 5 min (approx 16 hours 10min) |
| | LR(AVC 4M) | approx 12 hours 10min (approx 24 hours 20 min) |
| | ER(AVC 2M) | Approx 24 hours 25 min (approx 48 hours 50 min) |
| DVD | XP: approx1 hour, XSP: approx 1 hour 30 min SP(standard): approx 2 hours LSP: approx 2 hours 30 min LP: approx 4 hours, EP: approx 6 hours | |

(※1) Figures in () are recording time for dual layer BD

(※2) XR, XSR, SR, LSR can record at HD quality. LR, ER modes record in Standard Definition (SD).

(※3) DR mode recording time capacity is an estimate. Recording time capacity will vary according to the type of digital broadcast.

Main Functions

| Function | “BDZ-X90” | “BDZ-L70” | “BDZ-T70” | “BDZ-T50” |
|---|--------------------------|--------------------------|-----------------------------|-----------------------------|
| Ample HD Recording | ● | ● | ● | ● |
| Simultaneous recording of 2 digital programs | ● | ● | ● | - |
| Keyword-relational search | ● | ● | ● | ● |
| x-Omakase Maruroku (Auto AI recording) | ● | ● | ● | ● |
| Remote recording reservation | ● | ● | ● | ● |
| Program tracking recording/sports extra time compatible | ● | ● | ● | ● |
| High-speed HD dubbing | ● | ● | ● | ● |
| One-touch dubbing button | - | ● | - | - |
| Digital video camera dubbing (HD Handycam compatible) | ●HDD/M.S./DVD /HDV/DV | ●HDD/M.S./DVD /HDV/DV | ● DVD only (AVCHD/MPEG2) | ● DVD only (AVCHD/MPEG2) |
| x-Pict Story HD/x-ScrapBook | ● | ● | - | - |
| x.v.Color compatible | ● | ● | ● | ● |
| Full HD photo playback | ● | ● | ● Disc playback only | ● Disc playback only |
| DRC-MFv.2.5 / 1125p(1080p) output | ● | - | - | - |
| Deep Color output | ● | - | - | - |
| 24p True Cinema | ● | ● | ● | ● |
| Lossless (reversible type) audio compatible HDMI audio output | ● | ● | ● | ● |
| Leaving and returning transfer | ● | - | - | - |
| Sony RoomLink (Home Server function) | ● | ● | - | - |
| BRAVIA Link | ● | ● | ● | ● |
| BRAVIA Premium Photo | ● | ● | ● | ● |

※ Since April 2004, digital broadcasts are subject to copy control that allows them to be recorded only once. To enjoy HD video, please connect to an HD-compatible TV with one of the following: a D terminal cable, component terminal cable, or HDMI cable. All are sold separately.

Blu-ray Disc Recorder Assumed Market Price

“BDZ-X90” approx ¥200,000 “BDZ-L70” approx ¥180,000

“BDZ-T70” approx ¥160,000 “BDZ-T50” approx ¥140,000

* “Assumed market price” is Sony’s projection of the price the market will set for a product before it goes on sale. The actual product price will vary by retailer.
