

OHB-451 (NTSC)/**451P** (PAL)

Integrated Imaging Capsule

- Furnished with a 4:3 standard image format Power HAD 1000 IT CCD chips for the BVP-500/570
- Remote control capability for CC/ND filter as standard

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Specifications (with BVP-570)

	OHB-450/451	OHB-455WS	OHB-550	OHB-550WS
Pick-up Device System				
Device configuration	3-chip 2/3-inch IT CCD (4:3 Standard)	3-chip 2/3-inch IT CCD (16:9/4:3 Switchable)	3-chip 2/3-inch FIT CCD (4:3 Standard)	3-chip 2/3-inch FIT CCD (16:9/4:3 Switchable)
Picture elements (total)	1038(H) x 504(V)	1038(H) x 504(V)	1038(H) x 504(V)	1038(H) x 504(V)
Optical Specifications				
Spectrum system	F1.4 prism system	F1.4 prism system	F1.4 prism system	F1.4 prism system
Build-in filter wheel				
Servo filter drive	OHB-450: Not available OHB-451: Supplied	Option (BKDW-701)	Option (BKDW-701)	Option (BKDW-701)
Color filter - A	—	Cross filter	Cross filter	Cross filter
Color filter - B	—	3200K	3200K	3200K
Color filter - C	—	4300K	4300K	4300K
Color filter - D	—	6300K	6300K	6300K
ND filter - 1	3200K	Clear	Clear	Clear
ND filter - 2	5600K + 1/4 ND	1/4 ND	1/4 ND	1/4 ND
ND filter - 3	5600K	1/16 ND	1/16 ND	1/16 ND
ND filter - 4	5600K + 1/16 ND	1/64 ND	1/64 ND	1/64 ND
Electrical Characteristic				
Sensitivity	F8.0 at 2000 lx (3200K, 89.9% reflectance)	F8.0 at 2000 lx (3200K, 89.9% reflectance)	F8.0 at 2000 lx (3200K, 89.9% reflectance)	F8.0 at 2000 lx (3200K, 89.9% reflectance)
Minimum subject illumination	2 lx (F1.4 lens, +30dB gain up)	2 lx (F1.4 lens, +30dB gain up)	2 lx (F1.4 lens, +30dB gain up)	2 lx (F1.4 lens, +30dB gain up)
S/N ratio	62 dB	65 dB	65 dB	65 dB
Horizontal resolution	900 TV lines (luminance at center)	680 TV lines (luminance at center)	900 TV lines (luminance at center)	680 TV lines (luminance at center)
Vertical resolution	450 TV lines (with EVS)	450 TV lines (with EVS)	450 TV lines (with EVS or Super EVS)	450 TV lines (with EVS or Super EVS)
Geometric distortion	Below measurable level (no lens)	Below measurable level (no lens)	Below measurable level (no lens)	Below measurable level (no lens)
Shutter speed selection	1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 s	1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 s	1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 s	1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 s
Gain selection	-3dB, 0dB, +3dB, +6dB, +9dB, +12dB, +18dB, +24dB, +30dB	-3dB, 0dB, +3dB, +6dB, +9dB, +12dB, +18dB, +24dB, +30dB	-3dB, 0dB, +3dB, +6dB, +9dB, +12dB, +18dB, +24dB, +30dB	-3dB, 0dB, +3dB, +6dB, +9dB, +12dB, +18dB, +24dB, +30dB
Clear scan selection	60.1 ~ 7000 Hz	60.1 ~ 7000 Hz	60.1 ~ 7000 Hz	60.1 ~ 7000 Hz
Extended clear scan	No	No	30.4 ~ 58.3 Hz	30.4 ~ 58.3 Hz
Modulation depth (at 5MHz)	70%	70%	70%	70%
Power consumption*	20 W	20.5 W	20.5 W	21 W
DC input range	10.5 ~ 17 V	10.5 ~ 17 V	10.5 ~ 17 V	10.5 ~ 17 V
General				
Operating temperature	-20 °C to +45 °C (-4 °F to +113 °F)	-20 °C to +45 °C (-4 °F to +113 °F)	-20 °C to +45 °C (-4 °F to +113 °F)	-20 °C to +45 °C (-4 °F to +113 °F)
Storage temperature	-20 °C to +50 °C (-4 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)

*Measured with BVP-570 and BVF-10

	OHB-450P/451P	OHB-455WSP	OHB-550P	OHB-550WSP
Pick-up Device System				
Device configuration	3-chip 2/3-inch IT CCD (4:3 Standard)	3-chip 2/3-inch IT CCD (16:9/4:3 Switchable)	3-chip 2/3-inch FIT CCD (4:3 Standard)	3-chip 2/3-inch FIT CCD (16:9/4:3 Switchable)
Picture elements (total)	1038(H) x 594(V)	1038(H) x 594(V)	1038(H) x 594(V)	1038(H) x 594(V)
Optical Specifications				
Spectrum system	F1.4 prism system	F1.4 prism system	F1.4 prism system	F1.4 prism system
Build-in filter wheel				
Servo filter drive	OHB-450P: Not available OHB-451: Supplied	Option (BKDW-701)	Option (BKDW-701)	Option (BKDW-701)
Color filter - A	—	Cross filter	Cross filter	Cross filter
Color filter - B	—	3200K	3200K	3200K
Color filter - C	—	4300K	4300K	4300K
Color filter - D	—	6300K	6300K	6300K
ND filter - 1	3200K	Clear	Clear	Clear
ND filter - 2	5600K + 1/4 ND	1/4 ND	1/4 ND	1/4 ND
ND filter - 3	5600K	1/16 ND	1/16 ND	1/16 ND
ND filter - 4	5600K + 1/16 ND	1/64 ND	1/64 ND	1/64 ND
Electrical Characteristic				
Sensitivity	F8.0 at 2000 lx (3200K, 89.9% reflectance)	F8.0 at 2000 lx (3200K, 89.9% reflectance)	F8.0 at 2000 lx (3200K, 89.9% reflectance)	F8.0 at 2000 lx (3200K, 89.9% reflectance)
Minimum subject illumination	2 lx (F1.4 lens, +30dB gain up)	2 lx (F1.4 lens, +30dB gain up)	2 lx (F1.4 lens, +30dB gain up)	2 lx (F1.4 lens, +30dB gain up)
S/N ratio	60 dB (with BVP-570)	63 dB	63 dB	63 dB
Horizontal resolution	900 TV lines (luminance at center)	680 TV lines (luminance at center)	900 TV lines (luminance at center)	680 TV lines (luminance at center)
Vertical resolution	530 TV lines (with EVS)	530 TV lines (with EVS)	530 TV lines (with EVS or Super EVS)	530 TV lines (with EVS or Super EVS)
Geometric distortion	Below measurable level (no lens)	Below measurable level (no lens)	Below measurable level (no lens)	Below measurable level (no lens)
Shutter speed selection	1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s	1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s	1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s	1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s
Gain selection	-3dB, 0dB, +3dB, +6dB, +9dB, +12dB, +18dB, +24dB, +30dB	-3dB, 0dB, +3dB, +6dB, +9dB, +12dB, +18dB, +24dB, +30dB	-3dB, 0dB, +3dB, +6dB, +9dB, +12dB, +18dB, +24dB, +30dB	-3dB, 0dB, +3dB, +6dB, +9dB, +12dB, +18dB, +24dB, +30dB
Clear scan selection	50.2 ~ 9000 Hz	50.2 ~ 9000 Hz	50.2 ~ 9000 Hz	50.2 ~ 9000 Hz
Extended clear scan	No	No	25.4 ~ 48.5 Hz	25.4 ~ 48.5 Hz
Modulation depth (at 5MHz)	70%	70%	70%	70%
Power consumption	20 W (with BVP-570 and BVF-10CE)	20.5 W (with BVP-570 and BVF-10CE)	20.5 W (with BVP-570 and BVF-10CE)	21 W (with BVP-570 and BVF-10CE)
DC input range	10.5 ~ 17 V	10.5 ~ 17 V	10.5 ~ 17 V	10.5 ~ 17 V
General				
Operating temperature	-20 °C to +45 °C (-4 °F to +113 °F)	-20 °C to +45 °C (-4 °F to +113 °F)	-20 °C to +45 °C (-4 °F to +113 °F)	-20 °C to +45 °C (-4 °F to +113 °F)
Storage temperature	-20 °C to +50 °C (-4 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)