Color Video Entry Panels and Accessories

APPLICATION

The Ophera Video Entry system integrates high quality color video and audio components in a stylish combination intended to complement any décor. A wide range of appealing and innovative features makes Ophera the recognized choice for moderate sized MDU and custom residential projects. The system operates independent of data networks using proven analog technology.

SPECIFICATION

The video entry panels shall be weather resistant and have LED backlit buttons. Video cameras shall be suitable for day and night operation, operate with a minimum illumination of 50 lux, and have a minimum resolution of 330 lines. Color video panels shall be capable of providing at least 2 call buttons, as well as being paired with a digital keypad for larger systems. The video entry system shall have the ability to support up to 4 entry stations and a maximum of 100 apartments or suites.

FEATURES

- Weather resistant video entry station
- Integrated low-light color video camera with adjustable angle of view
- Adjustable microphone and speaker volume levels
- LED backlit buttons
- LCD display on Digital Keypad model with customizable text message
- Adjustable door release time from 1 to 15 seconds

DESIGN CONSIDERATIONS

- Camera viewing area at 20" (500 mm) from panel is 28" wide x 21" high (710 mm x 530 mm).
- Entry panels powered by BC100-0VA or BC100-VAS.
- Maximum of four entry panels per system
- BT102-01G Video Entry Panel can be used individually or paired with BT200-DPG Digital Keypad panel.
- Digital Keypad requires BT500-HAC (not included) and BT700-HTG (not included)
- BT102-01G includes a single push-button, but may be expanded to 2-button operation with BT600-HPS kit.
- Color Video panels (BT102-01G) and Digital Keypad panels (BT200-DPG) can be flush-mounted in drywall, concrete, or masonry with use of BT700-HTI plastic embedding box. Entry panels may also be surface-mounted using BT700-HBT metal box w/ rain cover (not included).

BT102-01G   BR200-DPG

STANDARDS COMPLIANCE

Meets or exceeds all applicable standards:
- CE
- FCC Part 15

COUNTRY OF ORIGIN

Italy

WARRANTY INFORMATION

For a copy of Leviton product warranties, visit www.leviton.com.

| PART NUMBERS	
Description	**Part No.**
1-Button Color Video Entry Panel, X1 system, grey	BT102-01G
Digital Entry Panel with name directory, grey	BT200-DPG
Interface module for digital entry panel	BT500-HAC
Single Push Button Kit	BT600-HPS
Plastic embedding box for entry panel	BT700-HTI
Plastic embedding box with frame (grey) for entry panel	BT700-HTG
Metal Surface Mount Box w/ Rain Cover for entry panel	BT700-HBT

LEVITON

ELECTRONIC FILES

For CAD files, typical specs, or technical drawings (.DXF, .DWG, Visio), visit www.leviton.com.

TECHNICAL SPECIFICATIONS

Electrical	
Supply Voltage (BT102-01G)	14-18 VDC
Current Demand	
BT102-01G	380 mA (nominal) / 880 mA (w/ door released)
BT200-DPG	350 mA
BT500-HAC	25 mA

Video (BT102-01G)	
Video signal	NTSC
Video sensor	¼" CCD
Video output	1 Vpp composite, 75Ω
Resolution	330 lines
Minimum illumination	50 lux
Iris control	automatic electronic
Lens	fixed-focus f3.7 / F5 (pinhole)

Dimensions	
BT102-01G	3.9" x 8.15" x 2.67" (100mm x 208mm x 68mm)
BT200-DPG	3.9" x 8.15" x 1.52" (100mm x 208mm x 39mm)
BT500-HAC	2.63" x 1.92" x 0.63" (67mm x 49mm x 16mm)
BT700-HTI	3.54" x 7.8" x 2.03" (90mm x 158mm x 52mm)
BT700-HBT	4.02" x 8.31" x 3.05" (102mm x 211mm x 78mm)

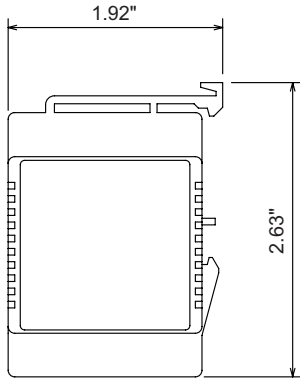| Environmental	
Operating Temperature	
BT102-01G, BT200-DPG	5° F to 122° F (-15° C to 50° C)
BT500-HAC	32° F to 95° F (0° C to 35° C)
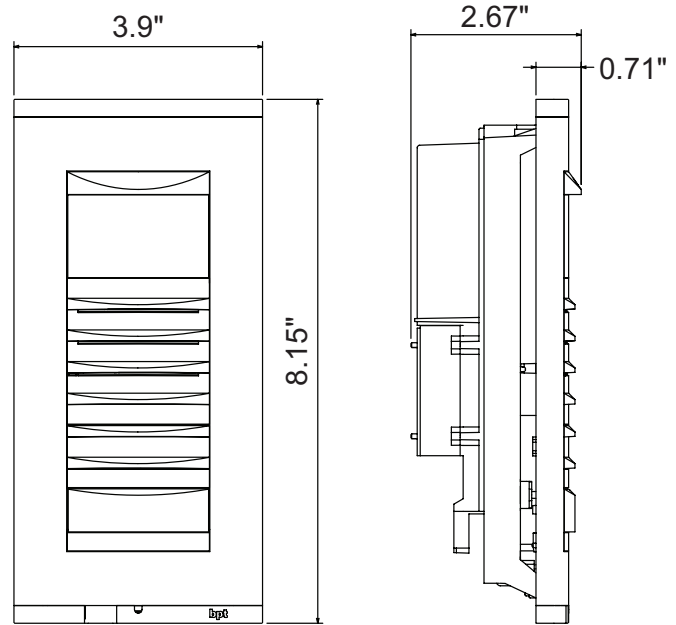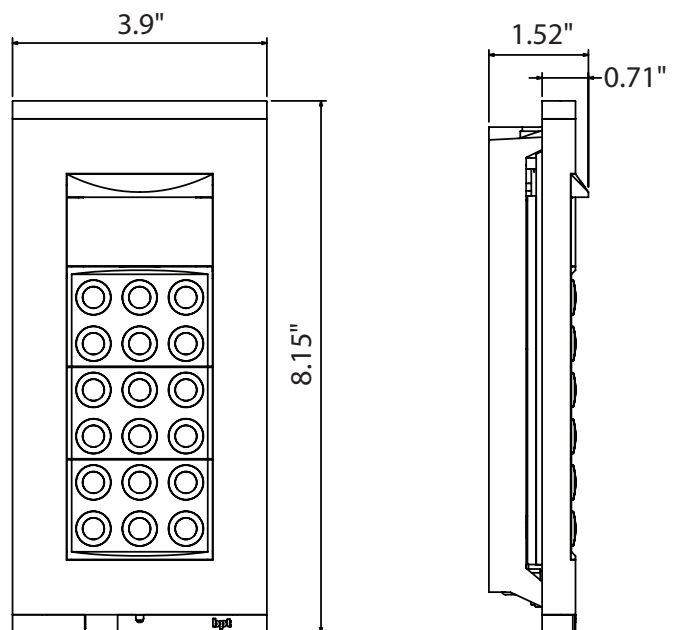
3.9" 2.67" 0.71"

8.15"

BT102-01G

BT102-01G, BT200-DPG, BT500-HAC, BT600-HPS, BT700-Hxx

3.9" 1.52" 0.71"

8.15"

BT200-DPG

![Leviton logo]

BT102-01G, BT200-DPG, BT500-HAC, BT600-HPS, BT700-Hxx

1.92"

2.63"

0.63"

BT500-HAC

3.54" (cutout)

7.8" (cutout)

2.03"

BT700-HTI

4.02"

8.31"

BT700-HBT

3.05"

2.42"
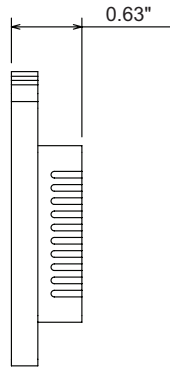
In-wall depths for entry panels

2.74"

2.74"

BT200-DPG

BT102-01G

Leviton Network Solutions, a division of Leviton Mfg. Co., Inc.
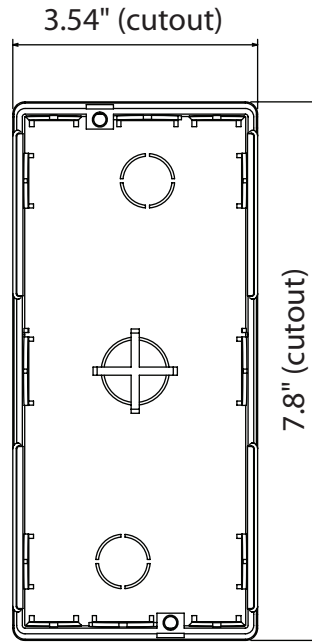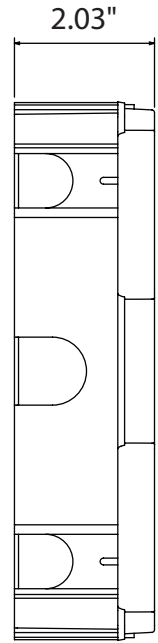2222 - 222nd St. SE Bothell, WA 98021 Tech Support: 1.800.824.3005 or +1.425.486.2222 Fax: 1.425.485.9170 www.leviton.com
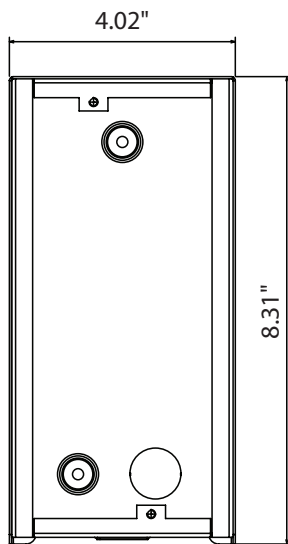
BT102-01G, BT200-DPG, BT500-HAC, BT600-HPS, BT700-Hxx

Camera Field of View
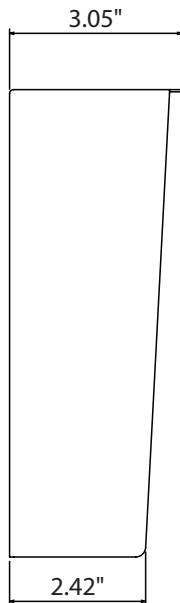
6.7" (170mm)   28" (710mm)   6.7" (170mm)

20" (500mm)

5.5" (140mm)

21" (530mm)

5.5" (140mm)

h

20" (500mm)
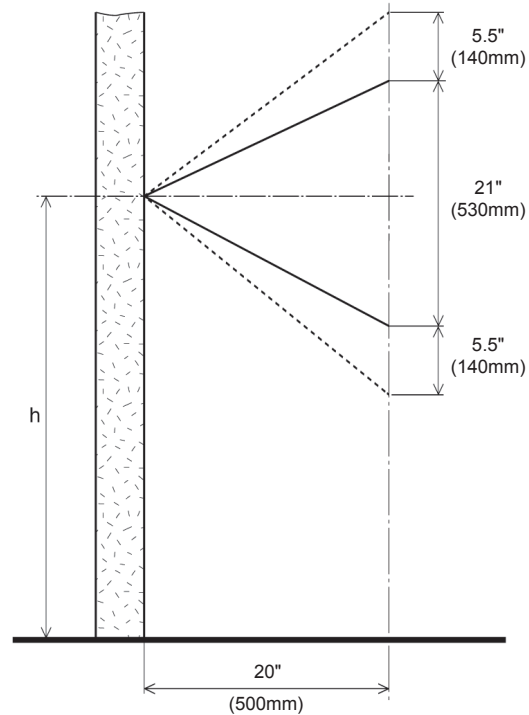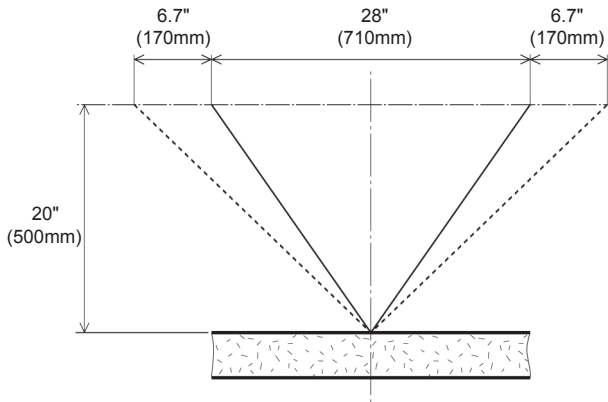
Note: Recommended mounting height of camera (h) is 60 inches.

Example System:

One entry point, 5 apartments with an Ophera Video Receiver in each unit, central powering

Maximum System Capability:
Four entry points, 100 dwelling units, up to 8 Ophera Receivers/intercoms in each dwelling unit (intercom capability requires local powering)

Apartment 101 — Ophera Video Receiver | BR200-00W

Apartment 102 — BR200-00W | Ophera Video Receiver

Example shown with 16-2 as the power wiring option and 18-2 twisted as the receiver wiring option

18-2 tw

18-2 tw

(distance to furthest receiver)

Video Entry Panel
Digital Keypad
Adapter Module

A

B

BT102-01G | BT200-DPG | BT500-HAC

Cat 5e

16-2

Power Supply
BC100-0VA

Metal Enclosure

16-2

110 VAC

18-2 tw

BC200-4VD

18-2 tw

Video Distribution Modules

BC200-4VD

18-2 tw

Apartment 105
(furthest receiver)

BR200-00W | Ophera Video Receiver

Door Release

18-2 tw

18-2 tw

Ophera Video Receiver | BR200-00W

Apartment 103

BR200-00W | Ophera Video Receiver

Apartment 104

Table A

Wiring Method	Max. Distance
1 pair Cat 5e (Data) 16-2 (Power)	495 ft.
1pair Cat 5e (Data) 2-pair Cat 5e (Power)	165 ft.

Table B

Wiring Method	Max. Distance
1 pair 18-2 twisted	328 ft.
1pair Cat 5e	82 ft.

Note: Regardless of wiring method used, maximum distance from Entry Panel to farthest receiver (A + B) cannot exceed 495 feet.
This distance may be increased with the addition of Extender Unit part number BC100-XAS.

Example System:

Two entry points, multiple suites (2 shown) with 3 Ophera Video Receiver/intercoms in each suite, local powering, Cat 5e wiring
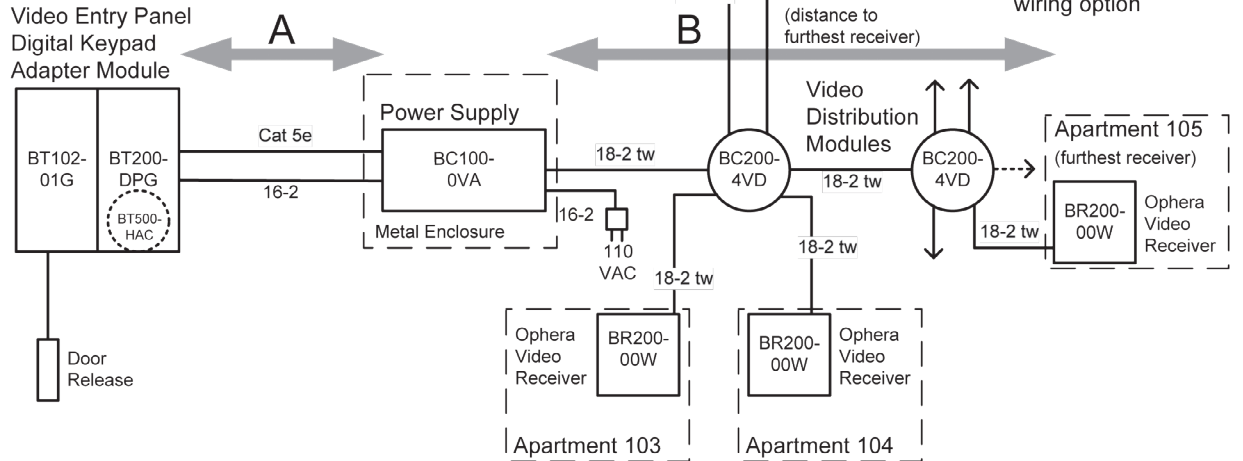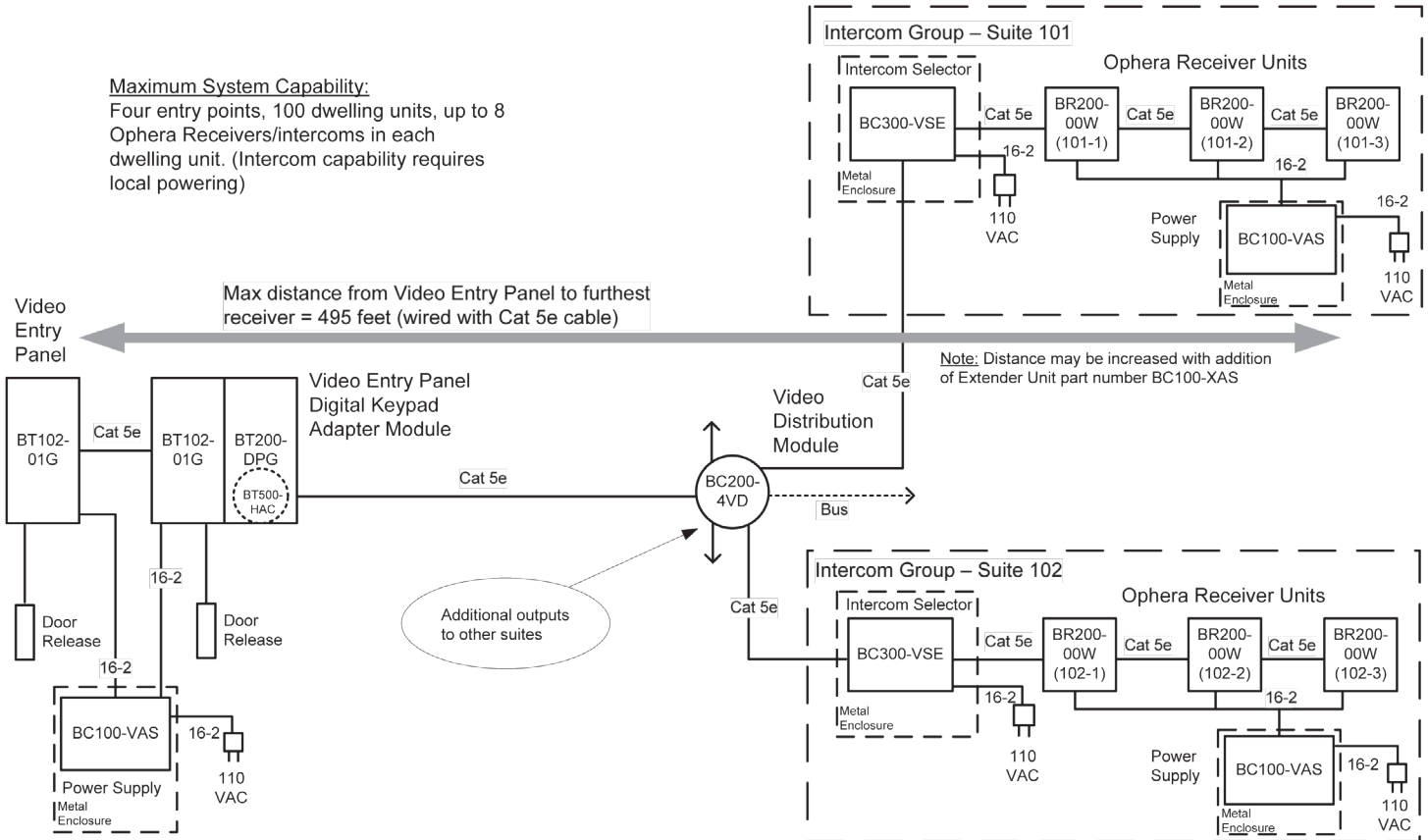
BT102-01G, BT200-DPG, BT500-HAC, BT600-HPS, BT700-Hxx

Intercom Group – Suite 101

Intercom Selector

Ophera Receiver Units

BC300-VSE

Metal Enclosure

16-2

Cat 5e | BR200-00W (101-1) | Cat 5e | BR200-00W (101-2) | Cat 5e | BR200-00W (101-3)

16-2

110 VAC

Power Supply

BC100-VAS

Metal Enclosure

16-2

110 VAC

Maximum System Capability:
Four entry points, 100 dwelling units, up to 8 Ophera Receivers/intercoms in each dwelling unit. (Intercom capability requires local powering)

Max distance from Video Entry Panel to furthest receiver = 495 feet (wired with Cat 5e cable)

Note: Distance may be increased with addition of Extender Unit part number BC100-XAS

Video Entry Panel

Cat 5e

BT102-01G | Cat 5e | BT102-01G | BT200-DPG | BT500-HAC

Video Entry Panel Digital Keypad Adapter Module

Cat 5e

Video Distribution Module

Cat 5e

BC200-4VD

Bus

Additional outputs to other suites

Door Release

16-2

Door Release

16-2

BC100-VAS

16-2

Power Supply

Metal Enclosure

110 VAC

Cat 5e

Intercom Group – Suite 102

Intercom Selector

Ophera Receiver Units

BC300-VSE

Metal Enclosure

16-2

Cat 5e | BR200-00W (102-1) | Cat 5e | BR200-00W (102-2) | Cat 5e | BR200-00W (102-3)

16-2

110 VAC

Power Supply

BC100-VAS

Metal Enclosure

16-2

110 VAC

C/10 #3275_Video_Entry_Panels