FORTEC
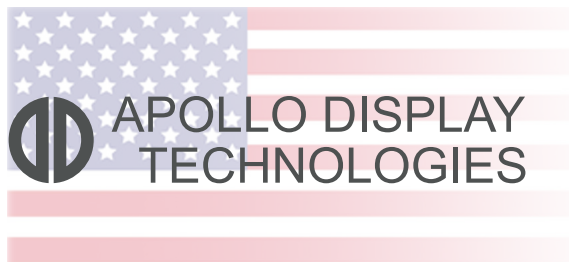ELEKTRONIK AG

BLO-Line®

Blaze load optimized monitors 42 inch – class A1

OUR GLOBAL
COMPETENCE
CENTERS

APOLLO DISPLAY
TECHNOLOGIES

DISTEC

DISPLAY
TECHNOLOGY

FORTEC
ELEKTRONIK AG

Product Features

Designed,
developed and
made in Germany

BLO-Line® 42

Protection against fire hazard and the assessment of fire behaviour of building materials is a basic presumption when planning and constructing buildings. Public areas, which are also marked emergency exit routes within buildings must be accessible in case of fire. Flammable materials with high risk of smoke gas development must not be used or installed in those areas.

Fire safety regulations avoid the installation of devices which are supposed to increase fire load and to promote development of smoke gas. Distec designed and developed a monitor series optimized in the contribution to fire and smoke gas emission for usage in public areas and buildings. BLO Monitors are available with two different reaction to fire classification levels.

BLO-Line® monitors: Safety first

The European Standard EN13501-1 enables the classification of building materials and components in terms of fire behavior and fire resistance. Additional criteria take a product's tendency to produce smoke and flaming droplets or particles into consideration. Since there is no such classification procedure for electronic devices, monitors are tested in compliance with the SBI method according to EN 13823:2015-02 standard, which specifies a method of test in order to determine the behaviour of fire

performance of construction products when exposed to thermal attack by a single burning item (SBI).

The required fire test was conducted in accordance with the above mentioned standards on the premises of the Leipzig Institute for Materials Research and Testing, a recognised, notified and accredited testing, inspection and certification body in Germany. The results have been verified and certified by an independent expert. The results of the fire tests allow Distec to offer fire load optimized monitors in accordance with the classifications A1 (non-combustible materials - no contribution to fire).

The new BLO-Line® is A1 classified and certified. Consequently, it meets the respective fire safety regulations. BLO-Line monitors may be also equipped with an optional extinguishing device or even engineered for a higher IP rating. Thus, our BLO-Line® monitors are most suitable for installation as information systems in public buildings, such as hospitals, universities, schools, airports and other public areas in buildings. They are available as common monitors or as an independent system with integrated PC. Hence, there is no need for additional fire resistant housings which are both heavy in weight and more expensive. Therefore, our BLO-Line® monitors are cost-effective and allow for an easy installation and handling.

Fire protection class A1

Class A1
CERTIFIED

Fördermitglied im

bvbf

Distec is supporting member of Bundesverband Brandschutz-Fachbetriebe e.V.

Please also visit our website:
www.brandschutzmonitore.de

DISTEC
A FORTEC GROUP MEMBER

Class A1
CERTIFIED

CLASS A1 - CERTIFICATION
about smoke gas development and fire load

This monitor is a fire load and smoke gas optimized device. With this certificate confirm compliance with the following limit values to fire behavior and fire load.

Reaction to fire: The flammability and combustibility of the monitor were tested in accordance with DIN EN 13823:2015-02 (reaction to fire tests for building products, excluding floorings, exposed to thermal attack by a single burning item).

slick copy of monitor label

The fire trial generated results enabling the monitor to be classified within the class A1 (DIN EN 13501-1) in all categories.
It should be noted, however, that officially it is not possible to classify monitors under DIN EN 13501-1 as this norm was made for building materials originally.

Fire load performance is dependent upon the screen diagonal measurement as follows:

Screen size	Fire load in kWh	Equivalent mass spruce wood in kg
609.6 mm (24.0")	8,08	1,68
800.1 mm (31.5")	13,97	2,91
1066.8 mm (42.0")	22,83	4,76
1168.4 mm (46.0")	26,70	5,56
1386.8 mm (54.6")	34,85	7,26
1638.3 mm (64.5")	43,58	9,08

Germering, 30. October 2019

Dipl.-Ing. Ralf Brill (MEng)
Officially appointed and inaugurated expert for preventive fire protection by the Chamber of Engineers
Certified expert for defensive fire protection
Director of RBE Ralf Brill Engineering GmbH

Matthias Keller
Managing Director
Distec GmbH

Panel and Housing

BLO-Line® 42

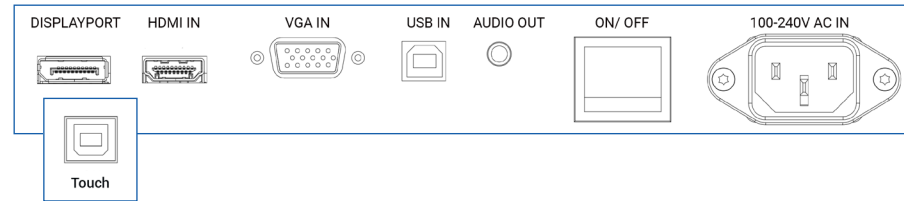|	Measure	Description
Panel Diagonal	[mm] / [Inch]	1066.8/ 42
Type		BLO-Line monitor with glass and bezel
Resolution	[Pixel]	1920 x 1080 FHD
Luminance (center)	[cd/m²]	700
Viewing angle (U/ D/ L/ R)	[°]	89/ 89/ 89/ 89
Backlight		LED
Active area (H/V)	[mm]	930.24 x 523.26
Number of colors	[M]	16.7
Contrast ratio		4000:1
Response time (on/off)	[ms]	8
Pixel class		ISO 9241-307 (pixel error class II)
Life time back light until reaching half brightness	[h]	50.000
Continuous operating time	[h] / [d]	24/ 7
Mounting	[mm]	Wall mount included
Storage temperature	[°C] / [°F]	-20 ~ 60 / -4 ~ 140
Operating temperature	[°C] / [°F]	0 ~ 40/ 32 ~ 104
Storage humidity	[%]	10 ~ 90 (non condensing)
Operating humidity	[%]	10 ~ 90 (non condensing)
Panel orientation		Landscape and Portrait (option)
Location of connectors and OSD buttons		Landscape and portrait mode: backside middle
Housing		Powdered steel sheet DC01, black RAL 9005
Glass		Fire protection glass, 7 mm
Power supply	[V]	AC 110-240/ 50-60 Hz
Weight	[kg]	37.0
Dimension (W x H x D)	[mm]	998 x 591 x 74.5
Conformity		CE, FCC Class A, EU-RoHS, A1 according to EN13501-1
Packaging		Single packaging for cargo pallet (max. 3 packages p.p.)
Package Contents		Safety instructions, power cable DB-07-607, BLO-Line® certificate

BLO-Line® 42 monitor

All figures are typical values. The real values of the panel may vary. The optical characteristics are determined after the panel has been „ON" for approximately 30 minutes at an ambient temperature of 25° C (77° F).
Life time of the backlight is defined as the time to take until the brightness reduces to 50% of its original value.

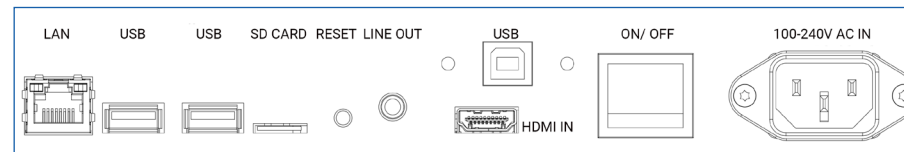# Video PME - VGA, HDMI, Display Port

BLO-Line® 42

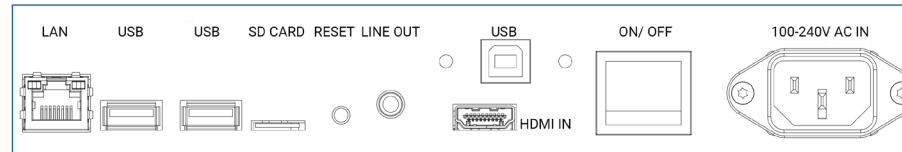| Order number		DS-92-059
Interfaces		1 x VGA, 1 x HDMI, 1 x DisplayPort, 1 x Audio Line-Out, 1 x USB-Remote
Power consumption (typ.)	[Watt]	100

BLO-Line® 42 monitor

VideoPoster - Network Multimediaplayer

Order number		DS-92-124
Interfaces		1 x LAN, 2 x USB, 1 x HDMI, 1 x Line out, 1 x MicroSD card slot
Power consumption (typ.)	[Watt]	86

BLO-Line® 42 monitor backside incl. wall mount
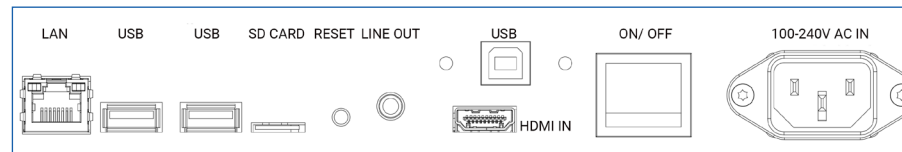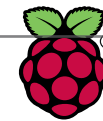
WebPoster M3 - Website Player

BLO-Line® 42

WebPoster M3 is an industrial FHD network player to show websites. It is a special designed Distec O/S for Artista IOT monitors.

Firmware is compatible with touchscreen applications.

Order number		DS-92-220
Interfaces		1 x LAN, 2 x USB, 1 x HDMI, 1 x Line out, 1 x MicroSD card slot
Raspberry® PI		CM3+, 32 GB
Power consumption (typ.)	[Watt]	86

IOT - Raspberry® IoT Controller
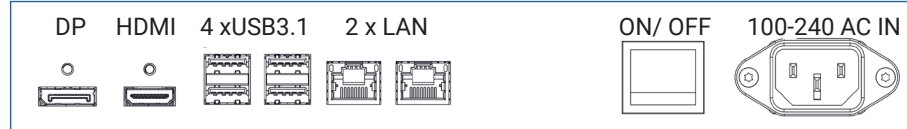

Order number		DS-92-075
Order number OS		DS-60-859
Interfaces		1 x LAN, 2 x USB, 1 x HDMI, 1 x Line out, 1 x MicroSD card slot
Raspberry® PI		CM3+, 32 GB
Power consumption (typ.)	[Watt]	86

PC Intel® Atom™

intel Atom inside™

BLO-Line® 42

| DP | HDMI | 4 xUSB3.1 | 2 x LAN | ON/ OFF | 100-240 AC IN |

Order number		DS-92-053
Interfaces		1 x DP, 1 x HDMI, 2x Ethernet RJ45, 4x USB 3.0
PC		CPU: Intel® Atom™ x7-E3950 Quad-Core (4x 1.6/2.0 GHz), RAM: 8 GB DDR3L, Storage: min. 128 GB M.2 SATA
Fan		no
Power consump.(typ.)	[Watt]	ca. 100

Options

	DS-92-132	Touch monitor with Prisma Media Eco
Order number	DS-92-154	Touch monitor with IQ Atom™
	DS-92-155	Touch monitor with Raspberry® IoT
	DS-92-213	Touch monitor with WebPoster M3
Touch technology		PCAP touch, projected capacitive
Glass		Fire protection glass 6.5 mm
Can be combined with		—

Touch integrated

BLO-Line® 42 monitor with touch screen

Options

Product	Order no.	Product description
Extinguishing cartridge	DS-92-079	Higher safety in cases of fire for all versions of BLO-Line®
BLO-Line® A1, Portrait mode	AP-01-148	Information order number if the usage will be in portrait mode, for all versions of BLO-Line®
Bezel with cable feedthrough	DS-92-108	Front bezel with outlet for cable feed BLO-Line® 42, to cover the cable connections

Accessories

Product	Order no.	Product description
Windows 10 Pro. 64 bit DE	DS-60-811	Operation system for Atom
Windows 10 Pro. 64 bit EN	DS-60-810	Operation system for Atom
WIN 10 IOT Atom™	DS-60-899	Embedded operation system 2019 LTSC
WebPoster IQ	DS-60-787	WEBPOStER embedded Linux for IQ

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