

# HIPP Endoskop Service GmbH

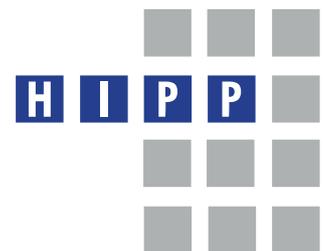
>> *your requirements are our aims.*



## HIPP Video Borescope Series VB

Technical Product Information

MADE IN GERMANY



# HIPP Borescopes

>> *for industrial application.*



## ■ Our vision – giving the gift of time to our customers

The optimum orientation towards our customers with their needs and requirements constitutes a constant challenge for us to make a small but valuable contribution in facilitating their daily routine. Due to a service portfolio tailored to suit the specific needs of the market and compatibility with other well-known borescope manufacturers, HIPP has evolved into one of the leading companies in the field of industrial endoscopy. We might not be a leader in terms of company size or volumes of systems installed, but certainly we are a leader in manufacturing a well-selected product range of customized borescopes.

HIPP Endoskop Service GmbH was founded in July 1996 by Alexander and Frank Hipp. As integrated service providers and manufacturers we stand for traditional value structures. Our activities have always been focussed on the development, maintenance and manufacture of all types of industrial borescopes. Thanks to our extensive know-how along with the strong personal commitment of all our employees, creativity, team spirit as well as the stability and permanence of a family-owned business we guarantee the highest level of quality – “Made in Germany”.

## HIPP Service – customer orientation is our benchmark

Of course, customer care and after-sales service are our first priority. Spare parts supply is guaranteed for 10 years. Short repair times in the event of damage (14 days) as well as quick and uncomplicated processing are part of our standards.

# HIPP Video Borescope Series VB

>> flexible.



■ HIPP Video Borescope VB Series – maximum benefit due to high user-friendliness

HIPP Video Borescopes Series VB are used in a wide range of industries covering various applications including:

## Plant Engineering

Testing of inner welding seams, testing of pipelines in the chemical, pharmaceutical and food industry, etc.

## Construction and Sanitary Area

Inspection of pipes and tubes, duct testing, pipe testing (waste water, tap water), leakage, etc.

## Aerospace

Testing of propulsion unit blades, inspection of cavities for fatigue breakage, etc.

## Wind Power and Energy

Examination of gearboxes for wind power plants in their installation position, etc.

## Machining Industry

Visual inspection without component destruction (drilling, blind holes, cross-holes), etc.

## Customs and Police Authorities

Search for contraband goods in cavities, etc.

HIPP Video Borescopes Series VB are characterized by:

- Protection unit IP 65 or IP 67
- Borescope tip bendable by 360°, image and video storage
- Probe coating from tungsten mesh
- Handy and extremely light device of 960 g, high display resolution of 1024 x 768 pixels
- Service- and repair-friendly



# HIPP Video Borescope Series VB

>> *features.*



## Product Profile

**VB** Light and compact video borescope featuring a weight of just 960 g, including image, video and zoom function, display with a resolution of 1024 x 768 pixels, integrated LED illumination and storage batteries with a service life of up to 4 hours – your ideal companion for virtually all test challenges. The video borescope is very service- and repair friendly as well as easy to handle.



FLEXIBLE



AVAILABLE BORESCOPE PROBE DIAMETERS  
2,8 mm / 4,5 mm / 6,5 mm / 8,5 mm



IMAGE PROCESSING THROUGH  
CMOS IMAGE SENSOR



DEPTH OF FIELD  
FROM 5 mm -  $\infty$



APERTURE (FIELD OF VIEW)  
100° / 110°



EFFECTIVE LENGTH  
1500 mm und 3000 mm

## Note

Please note that the depth of field varies depending on the device type.

# HIPP Video Borescope Series VB

>> IP 65 / IP 67.



H I P P



# HIPP Video Borescope Series VB

>> *features.*

## Specifications

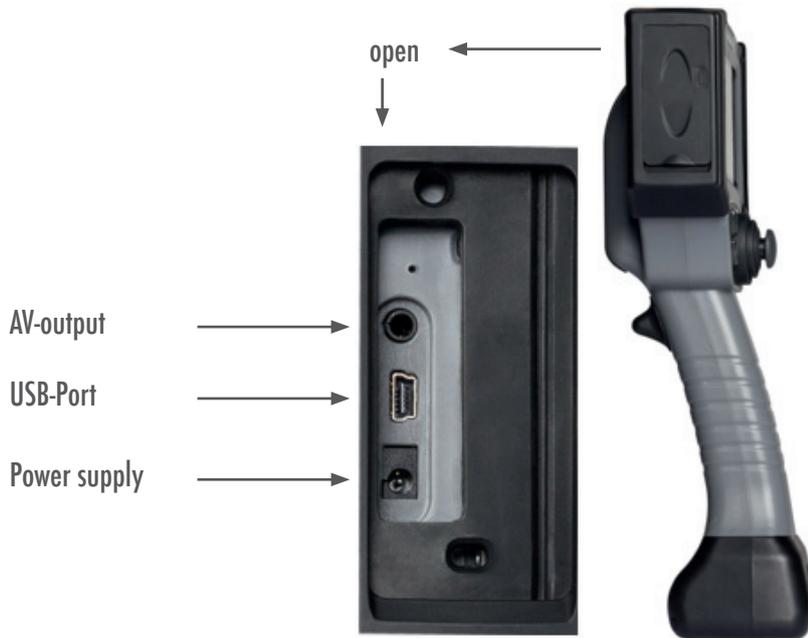
- Internal lithium-ion battery - Operating time at least 2.5 h max 5 h
- Great viewing angle of up to 110 °
- The movement of the borescope tip is transmitted by servomotors and allows a 360 ° all-round view
- Integrated high-intensity LED light source with 5 brightness levels
- Quick and easy creation of images and videos
- Storage medium 8/16/32 GB micro SD card
- 4.3 Zoll LCD monitor with a resolution of 1024 x 768 pixels provides sharp and clear static and dynamic images
- Probe diameters of 2.8 mm, 4.5 mm, 6.5 mm and 8.4 mm for different applications



# HIPP Video Borescope Series VB

>> *connections.*

## Left Side



## Right Side



# HIPP Video Borescope Series VB

>> *comprehensive insights.*

## Joystick controlled bending in all 360 ° directions

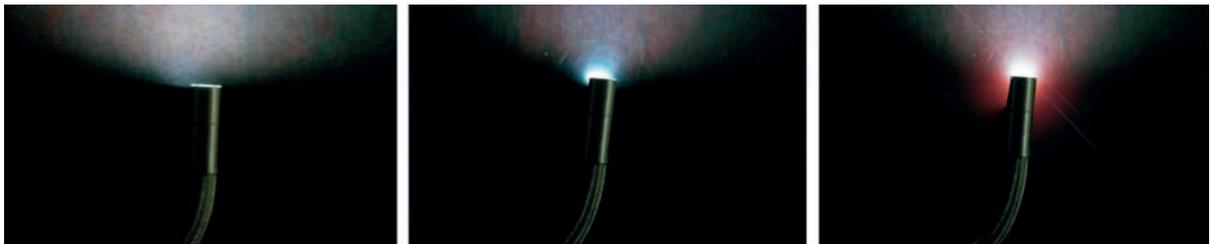
The viewing direction is transmitted quickly and directly to the borescope tip by means of a joystick so that a 360 degree all-round view is possible.

The transmission of movement from the joystick to the borescope tip is ensured by servomotors – this has the advantage that you get a smooth and very easy control of the borescope tip even through narrow holes, channels and complex components.



## LED-Lighting

Thanks to the 5-stage LED light source, the light can always be adjusted to the appropriate ambient conditions. With a service life of 20,000 hours eliminates the usual lamp replacement. The powerful battery allows a working time of about 4 hours.



## Image and Video Storage

Simplest image and video storage at the push of a button directly on the video boroscope, recorded images and videos are stored on an SD card. It is possible to enlarge images with the zoom function 3 times (digital), so that even the smallest things become visible.



# HIPP Video Borescope Series VB

>> 4-way-360°.



# HIPP Video Borescope Series VB

>> *delivery set.*



Manual



SD Card



Interchangeable lens  
Near / far area  
(optional with 8 mm model)



Battery pack

Charger

# HIPP Video Borescope Series VB

>> *technical data.*

Boroscope Model VB	2,8 mm Series	4 mm Series	6 mm Series	8 mm Series
Aperture	100°	100°	110°	110°
Boroscope probes ø	ø 2.8 mm IP 65	ø 4.5 mm IP 65 ø 4.5 mm IP 67	ø 6.2 mm IP 65 ø 6.4 mm IP 67	ø 8.4 mm IP 65 ø 8.4 mm IP 67
Probe length	1.5 m	1.5 m / 3 m	1.5 m / 3 m	1.5 m / 3 m
Probe sheath	Steel braid	Wolfram braid	Wolfram braid	Wolfram braid
Interchangeable lens	no	no	no	yes
Depth of field	5 mm - 30 mm	8 mm - 80 mm	15 mm - ∞	5 mm - 50 mm (Close lens) 15 mm - ∞ (Long-distance lens)
Probe tip angling	2-way	4-way / 360°	4-way / 360°	4-way / 360°
Probe tip bending radius	R = 2.2 cm	R = 3.5 cm	R = 4.0 cm	R = 4.8 cm
Probe tip max. angling	120°	110°	110°	110°
IP Protection classes	IP 65	IP 65 oder IP 67	IP 65 oder IP 67	IP 65 oder IP 67
Resolution live picture	1024 x 768 px	1024 x 768 px	1024 x 768 px	1024 x 768 px
Resolution live picture pixels	160000 px / 30fps	300000 px / 30fps	700000 px / 30fps	700000 px / 30fps
Image size saved photo	JPG 1024 x 768 px	JPG 1024 x 768 px	JPG 1024 x 768 px	JPG 1024 x 768 px
Image size saved video	AVI 720 x 576 px	AVI 720 x 576 px	AVI 720 x 576 px	AVI 720 x 576 px
Memory card micro-SD	8 GB / 32 GB	8 GB / 32 GB	8 GB / 32 GB	8 GB / 32 GB
LCD-Monitor size	4.3" 10.5 cm Diagonal	4.3" 10.5 cm Diagonal	4.3" 10.5 cm Diagonal	4.3" 10.5 cm Diagonal
LED-Lighting adjustable	5 level	5 level	5 level	5 level
LED-Lifetime	20.000 h	20.000 h	20.000 h	20.000 h
Outputs	Video output	Video output	Video output	Video output
Operating temperature	-10° C - + 50° C	-10° C - + 50° C	-10° C - + 50° C	-10° C - + 50° C
Power supply DC	5V Li-Polymer Bat.	5V Li-Polymer Bat.	5V Li-Polymer Bat.	5V Li-Polymer Bat.
Power supply AC	100-240 V	100-240 V	100-240 V	100-240 V
Operating time	max. 5 h	max. 5 h	max. 5 h	max. 5 h
Weight	960 g incl. Battery	960 g incl. Battery	960 g incl. Battery	960 g incl. Battery
Suitcase dimensions	560x460x160 mm	560x460x160 mm	560x460x160 mm	560x460x160 mm



# HIPP Video Borescope Series VB

>> *configurator.*



## Borescope-Configurator

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The HIPP Borescope-Configurator will assist you to choose the borescope you are interested in.

1. Please specify the probe diameter. This should be much smaller than the hole:

2.8 mm    4.5 mm    6.5 mm    8.5 mm

2. Please specify the desired working length:

1500 mm    3000 mm    special length

## Note

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Please note that the depth of field varies depending on the device type.



For more information, visit our website.

# HIPP Video Borescope Series VB

>> variants overview.



## Optical Diameter: 2.8 mm to 8.5 mm

Ø [mm]	Effective length [mm]	Aperture	Depth of field	Item-No.
2.8	1500	100°	5 mm - 30 mm	HT-1504-28-VB
4.5	1500	100°	8 mm - 80 mm	HT-1504-40-VB
4.5	3000	100°	8 mm - 80 mm	HT-3004-40-VB
6.5	1500	110°	15 mm - ∞	HT-1504-60-VB
6.5	3000	110°	15 mm - ∞	HT-3004-60-VB
8.5	1500	105°	5 mm - 50 mm / 15 mm - ∞	HT-1504-80-VB
8.5	3000	105°	5 mm - 50 mm / 15 mm - ∞	HT-3004-80-VB

# HIPP Video Borescope Series VB

>> *portable and compact.*



# HIPP Video Borescope Series VB

>> *your notes.*

Your Notes

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# HIPP Endoskop Service GmbH

>> *your requirements are our aims.*



## HIPP Video Borescope Series VB

### Technical Product Information



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