



Leatherwood® **Hi-Lux™ OPTICS**



GENERAL DATA		Micro-Max™ B-Dot™ Electronic Sight
Model number		MBD1-20
Technology		B-Dot LED technology
Working principle		Reflex collimator red-dot sight
OPTICAL DATA		
Light source		LED (Light Emitting Diode) totally eye-safe
Light source wavelength		640 nm -red light
Red dot size		2 MOA (Minute Of Angle)
Parallax		Parallax Free (absence of parallax - No centering of the Dot required)
Eye relief		Unlimited
NV (Night Vision) compatibility		Yes
Anti-reflex coating all surfaces & multi-layer coating objective lens		Yes + Kill flash filter ARD (Anti-Reflection Device) and flip-open lens covers are included
Magnification		1X - no magnification
ELECTRONIC DATA		
Battery		One 3V Lithium battery, type CR2032 (Extra battery internal compartment)
Battery life at medium brightness		55,000 hours (\approx 6.2 years of normal use)
Battery life at NVD settings		750,000 hours
Dot intensity adjustment		Manual push buttons (+) and (--)
B-Dot brightness settings		1 to 12(extra bright) programmable Auto OFF (after 2-12 hours of not use), manual OFF (simultaneously press (+) and (--))
NVD settings		1 to 3 (Night Vision Device Compatible)
MECHANICAL DATA		
Material housing		Extruded high strength aluminum
Surface finish		Hard anodized, matte
Color housing		Black
Adjustment 1 click: (Windage & Elevation)		1/2 MOA \approx 0.52" at 100 Yds or 0.15 mrad \approx 1.5 cm at 100 m (Windage & Elevation turn CCW -impact to R & Up)
Max.Adjustment:		100 MOA (40 clicks = 20 MOA \approx 5.8 mrad per revolution)
Mounting methods		Integrated Weaver / Picatinny rail mount
ENVIRONMENTAL DATA		
Temperature range		-65°C = -85°F to +85°C = +185°F
Water resistance		Yes (submersible)

Radioactive components used None

DIMENSIONS

Length / Width

3.0" in = **76.2** mm / 1.7" in = **42.3** mm

Sight optical center height with:
included **Low** mount

0.74" = **18.8** mm

optional Medium mount (not available in 2014)

1.54" = **39.0** mm

optional High mount

1.64" = **41.6** mm

Weight:

sight only

3.6 oz = **102.6** g

sight assembled with **Low** mount

5.6 oz = **157.5** g

sight assembled with **High** mount

6.2 oz = **176.0** g



Kill flash filter **ARD** (Anti-Reflection Device)
and **flip-open** lens covers are included.

2 MOA red b-Dot Parallax Free (absence of parallax
No centering of the Dot required, when you aim)





Adjustment 1 click (Windage & Elevation) = **1/2 MOA** $\approx 0.52"$ at 100 Yds or 0.15 mrad ≈ 1.5 cm at 100 m

Max.Adjustment (Windage & Elevation) = **100 MOA** (40 clicks = 20 MOA ≈ 5.8 mrad per revolution)

Extra /spare (second) **CR2032** battery compartment.



Two of **Hi-Lux™ OPTICS** Micro-Max **b-Dot** sights passed through a series of endurance tests under various conditions and finally on October 16, 2014 were successfully tested at **ALEXANDER ARMS®** testing facility on **.338 LAPUA Magnum** semi-automatic rifle "**ULFBERHT**" at **-65°C = -85°F**, using 200 rounds of **BLACK HILLS** 300gr HPBT ammunition after been frozen for 12 hours.



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