Aktazal n leɛdasi

HLM-9000

Akat n lentiyat n tira d unermis s tetiknuluji Hartmann.

HLM-9000 ikayad akk tiwsatin n tlentiyin n tneẓriyin, yesenqad s wudem awurman tilentiyin s waṭas n yimeqqimen, tid s yiwen n umeqqim d tneẓriyin n yiṭij, ikayad asezri n tafat tanilit d UV deg tlentiyin i tt-yeḥebbsen.



HLM-9000 · Tugna

Iɣbula d yisemliyen · Aɣbalu yettwasentem ass n 2026-10-18

Suter tasɣunt n ssuma

Wali afaris

Tettwahegga ass n 2026-11-29

> Taferkit-a n ufaris thegga-tt ASEM. Ur tettbeddil ara isemliyen unsiben n umeskar neɣ tinaḍin n useqdec.

Iferdisen igejdan

Tasleḍt Hartmann

Akat n SPH, CYL d tzemmart taprizmatikt.

Iɣbula d yisemliyen · Aɣbalu yettwasentem ass n 2026-10-05

Lentiyat n unermis

Akat n lentiyat n unermis iquranen d yilwiyen.

Iɣbula d yisemliyen · Aɣbalu yettwasentem ass n 2026-10-05

Azilal aḍwan wessiɛen

SPH seg −25 ar +25 D; CYL alamma 10 D.

Iɣbula d yisemliyen · Aɣbalu yettwasentem ass n 2026-10-05

Tiwuriwin deg usnas

Lansmiteri Hartmann

Iɣbula d yisemliyen

Tilentiyin n unermis tiqeṣḥanin d tlewwaɣin

Iɣbula d yisemliyen

Sleḍ tilentiyin s Hartmann

Tasleḍt n umdes n lmujat s umassas Hartmann tettwaxdem i tlentiyin tigetmasan d tid s tkuẓẓi meqqren. Ibenk isemras izirig azegzaw n 545 nm.

- Tasleḍt s uẓeṭṭa n tneqqiḍin Hartmann.
- Izirig n uktil azegzaw n 545 nm.

Iɣbula d yisemliyen

Ktil asɛeddi n UV d tafat tanilit

Iskaren usligen skanen asɛeddi n UV d tafat tanilit deg talentit. Igmaḍ-a ttimkammalen aktil n tnezmart d wanaw n talentit.

- Aktil n usɛeddi UV seg 0 ar 100%.
- Aktil uslig n usɛeddi n tafat tanilit.

Iɣbula d yisemliyen

Ktil tilentiyin n unermis

Akemmus uslig isers tilentiyin n unermis i uktil.

Ilmend n twila

- Aktil n tlentiyin n unermis tiɣuranin d tilwayanin.
- Asersi n tlentiyin tilwayanin d afran.

Iɣbula d yisemliyen

Alansmitr s uɣlal n tafat tazegzawt (545 nm)

HLM-9000 d ibenk s tzemmar, yeshilen i useqdec, i ukat iṣeḥḥan n tlentiyin s yiwen neɣ aṭas n yimeqqimen d tid n yiṭij. Yesenqad s wudem awurman anaw n tlentiyin, yesleḍ asezri n tafat, ladɣa tanilit d UV. Tatiknuluji Wavefront ttağğa ikaten yettwasnasen; agdil LCD anallay i yettuknun yeshel amahil.

Akat n tlentiyin s waṭas n yimeqqimen

Asenqed awurman n tlentiyin s waṭas n yimeqqimen yeshel akat s yimniren ɣef ugdil, ula i tneẓriyin n yiṭij d tlentiyin aprizmatikin s waṭas n yimeqqimen.
Telqay ugar s uɣlal azegzaw.
Aɣlal azegzaw (545 nm), iqerben ɣer uẓerreg e n Fraunhofer (546,1 nm) ilmend n yilugan ISO, yettak telqay n ukat yugaren tafat infraḥemr tamagnut.
Asenqed awurman n tlentiyin.
Tilentiyin s yiwen n umeqqim, tisedduklanin d tiyaḍ ttwassenqadent s wudem awurman, i usenker n uskar iwulmen n ukat.

Iferdisen igejdan

1. Anermis d tɣessa.
Agdil LCD s yiniten n 7 n yidudan, s teɣmert wessiɛen n 178°, yesrus aɛeyyu, yesnerni tanezzut n umahil.
Akna ameqqran i tɣuri izegzayen, yecɛelen seg taniliwin yemgaraden.
Anermis aḥerfi, yeshilen, ula i yiseqdacen ur nelli d imussnawen.
Amkan n uḥraz amernan deg ufella, s taduli n ukawču i yimallalen imeẓyanen.
2. Tarrayt n ukat d telqay.
Tanila n uprizm teshel: amussu n talentit s tidet d uskan-is d yiwen, i usefruri n usefhem deg ukat.
3. Tuqqna d trisiti.
Tuqqna war tinelli Wi-Fi i usiweḍ n yisefka akked HRK-9000A d HDR-9000, i twennaḍin yemgaraden n umahil.
Tuqqna s tinelli RS-232 tella i leqwamat iqburen.

Tulmisin

1. Tulmisin titiknikanin n ukat:
• Asfir: 0D~±25D (0,01/0,06/0,12/0,25).
• Asilindr: 0D~±10D (0,01/0,06/0,12/0,25).
• Agellus: 0˚~180˚ (surif n 1˚).
• Timerna: 0~10D (0,01/0,06/0,12/0,25).
• Askar n usilindr: 0 ar ±10,00D (amseddu/-/+).
• Aprizm: 0~20△ (0,01/0,06/0,12/0,25).
2. Tulmisin n tlentiyin:
• Akdu n talentit i yettwakayaden: ø20 ar 120 mm (talentit n unermis: ø5 mm neɣ ugar).
• Akat n tlentiyin n unermis: tiqeṣḥanin/tilewwaɣin.
• Asezri UV: 0~100 %.
• Asezri n tafat tanilit: 0~100 %.
3. Tarrayt n ukat d telqay:
• Taɣzi n lmujat: 545 nm (azegzaw).
• Tarrayt: amassas Hartmann.
4. Anermis d tɣessa:
• Agdil: LCD IPS anallay s yiniten n 7 n yidudan, i yettuknun (800x480).
• Tasaggazt: s ugezzum awurman.
5. Tuqqna d trisiti:
• Inermisen: RS-232C / USB 2.0 / Wi-Fi (802.11b, 2,4 GHz).
• Trisiti: 100-240VAC~, 0,5-0,3A, 50/60Hz.
6. Tisekta d tẓayt:
• Tisekta: 222 (Tehri) x 240 (Telqay) x 370 (Teɣzi) mm.
• Taẓayt: 5,4 kg.

I wakken ad yishil ubrid n umahil

Ɛeddi ɣer uskar n talentit iwulmen

Aɛqal awurman iferren askar n tlentiyin tiyunifukalin neɣ tiprugrisiv. Iwellihen deg ugdil ttɛawanen aktil n tlentiyin timultifukalin d timernit.

- Aɛqal n tlentiyin tiyunifukalin d tiprugrisiv.
- Iwellihen deg ugdil i temnaḍin n lebɛid, lqerb d timernit.

Iɣbula d yisemliyen

Ktil tinezmarin d yiprizmen

Iskaren n uktil ɣummun tanezmart n sfer, asilindr, timernit d prizm n talentit.

- Sfer ±25 D d usilindr ±10 D.
- Timernit ar 10 D d prizm ar 20 Δ.

Iɣbula d yisemliyen

I useqdec n yal ass

Qqen tasɣunt n rifraksyun

Igmaḍ zemren ad ttummeskalen gar yibenkan Huvitz yemṣadan deg tesɣunt n rifraksyun.

- Aseɣwen Wi-Fi akked HRK-9000A d HDR-9000.
- RS-232 i yiseɣwan s ugatu i yettwaseknen.

Iɣbula d yisemliyen



HLM-9000 · Tugna

Iɣbula d yisemliyen

Isallen itiknikanen d yisemliyen

Tazwert taddayt n usfir
-25 D

Iɣbula d yisemliyen

Tazwert tafellayt n usfir
25 D

Iɣbula d yisemliyen

Tazwert tafellayt n usilindr
10 D

Iɣbula d yisemliyen

Aprizm afellay
20 Δ

Iɣbula d yisemliyen

Tuqqna
RS-232C · USB 2.0 · Wi-Fi 2.4 GHz

Iɣbula d yisemliyen

Tilisa n useggem
Agdil yettuknun

Iɣbula d yisemliyen

Asaɣ n trisiti
100–240 V AC ; 50–60 Hz

Iɣbula d yisemliyen

Tisekta
222 × 240 × 370 mm

Iɣbula d yisemliyen

Taẓayt
5.4 kg

Iɣbula d yisemliyen

Asider d yiɣbula

- https://huvitz.com/wp-content/uploads/2024/10/HLM-9000_8p_eng_20200410-1.pdf
  Aɣbalu yettwasentem ass n 2026-10-05
- https://huvitz.com/wp-content/uploads/2024/10/HLM-9000_8p_eng_20200410-1.pdf
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- https://huvitz.com/wp-content/uploads/2024/09/HDR-9000_8p_eng_20180330.pdf
  Aɣbalu yettwasentem ass n 2026-10-18

Isteqsiyen-nwen ɣef HLM-9000

D acu Tazwert taddayt n usfir iɣef llan yisemliyen n HLM-9000?

-25 D

Iɣbula d yisemliyen

D acu Tazwert tafellayt n usfir iɣef llan yisemliyen n HLM-9000?

25 D

Iɣbula d yisemliyen

Asersi n tlentiyin tilwayanin yedda-d deg twila?

Tawriqt teskan aktil n tlentiyin n unermis tiɣuranin d tilwayanin, maca tesbadu asersi n tlentiyin tilwayanin d afran. Ilaq ad yettwasentem ma yedda-d deg twila.

Iɣbula d yisemliyen

D acu skanen yiskaren UV d tafat tanilit?

Ttkatilen asɛeddi n talentit deg yiskaren usligen. Agmuḍ isbadu talentit yettwakayaden, yettimkammal iktilen n tnezmart.

Iɣbula d yisemliyen

Anta ibenkan i yettwasbadun i useɣwen war agatu?

Tawriqt tesbadu HRK-9000A d HDR-9000 i useɣwen Wi-Fi. Teskan daɣen RS-232 i yiseɣwan s ugatu.

Iɣbula d yisemliyen

Ifarisen icudden



HLM-7000P

Huvitz

Aktazal n leɛdasi

Akat n lentiyat n tira d lentiyat n unermis.

Wali afaris

Wali akatalug akliniki n ASEM

Wali taɣulin icudden deg ukatalug ASEM. Iseɣwan-a ur rennun ara isnasen imaynuten i yibenk-a.

Asenqed d biyumetri

Ugar n yibenk, d amɛiwen i wakud ɣezzifen

Mmeslay ɣef usenfar-ik akked ASEM: afran n yibenkan, asbeddi, asileɣ d tallalt tatiknikant.



Tugna n umeẓlu

Asbeddi

Mmeslay ɣef yisuturen n usbeddi d twila akked terbaɛt-nneɣ tatiknikant.

Issin ugar



Tugna n umeẓlu

Asileɣ

Suter isallen ɣef usileɣ d ulmad n useqdec yellan i yibenk-ik.

Issin ugar



Tugna n umeẓlu

Ameẓlu deffir uznuzu

Nermes ASEM i tallalt tatiknikant d umɛiwen i yibenk-ik.

Issin ugar



Tugna n umeẓlu

Anṣaḥ n yimussnawen

Mmeslay-aɣ ɣef yisuturen-ik iklinikiyen i wakken ad nefren ibenkan iwulmen.

Issin ugar

Nermes amussnaw

Wali akk ifarisen

Asmel n umeskar

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