Allalen awurmuyen n uktazal n tɣuri d yiɣallen n tɣerɣert

HTR-1A

Rifraksyun, lqerniya d tḍeɣṭ deg tiṭ deg yiwet n tɣawsa.

Arifraktyur-tunumitr HTR-1A n Huvitz d ibenk anemgal n tdawsa n wallen. Anagraw n yibenkan n wallen Huvitz d tinasant yemden, tamaynut i yimassanen n tdawsa n wallen. Yesdukkel itiknulujiwin tanernanin, am Wavefront d tesleḍt Zernike i yisefka iṣeḥḥan n rifraktumetri, keratumetri d yiberṛučen n twali. Yeshel aseggem n tlentiyin s yisura usligen am tugniwin s flyuresin d usenqed n ukrif n tlentiyin tiqeṣḥanin. Deg tunumetri, aḥkam n waḍu d yisefka n lqerniya i yikaten yettwasnasen. Ikar usligen ǧǧan asenqed n ibeddilen seg tiruẓi n ukristalin alamma d yizamulen n tiṭ yeqquren. HTR-1 Huvitz yettak adiyagnustik yemden, n yal amuḍin, s tzemmar d lehna i uḥraz n yimuḍan.



HTR-1A · Tugna

Iɣbula d yisemliyen

Suter tasɣunt n ssuma

Wali afaris

Tettwahegga ass n 2026-11-09

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

Iferdisen igejdan

Rifraksyun d keratumetri

Sin n yikaten n ukayad n rifraksyun mlalen.

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

Tonumetri war anermis

Akat n tḍeɣṭ deg tiṭ war anermis.

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

Pakimetri n lqerniya

Akat n tḍuḍi n lqerniya deg yiwen n yibenk.

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

Heggi aseggem

Amnir n users yeskan isefka iwulmen i useggem n tlentiyin.

Iɣbula d yisemliyen · Aɣbalu yettwasentem ass n 2026-08-30

Wali tiɣuddanin Meibomius

Tugna n meybugrafi tkemmel akayad n tmaẓirt n tiṭ deg yiwen n ubrid.

Iɣbula d yisemliyen · Aɣbalu yettwasentem ass n 2026-08-30

Isemliyen n tɣellayt n imeṭṭawen

Tasleḍt TFBUT teskan tiremmat n wakud i tɣuri n urkad n imeṭṭawen.

Iɣbula d yisemliyen · Aɣbalu yettwasentem ass n 2026-08-30

Akat awurman

Abrid uslig i unṭaf n yisefka n rifraksyun.

Isefka yettwasuddesen

Isallen iwulmen qqimen yellan deg unermis.

Abrid yeqqnen

Igmaḍ zemren ad ddukklen deg ubrid n rifraksyun n tklinik.

Tiwuriwin deg usnas

Rifraktumetri

Iɣbula d yisemliyen

Keratumetri

Iɣbula d yisemliyen

Tunumetri war anermis

Iɣbula d yisemliyen

Pakimetri

Iɣbula d yisemliyen

Sdukkel ukkuẓ n yiktilen deg yiwet n tesɣunt

HTR-1A yesdukkel rifraksyun, kiratumetri, tunumitri war anermis d pakimitri. Amuḍin yeqqim deg yiwet n tesɣunt i wakkuẓ n yiktilen-a n yibenk.

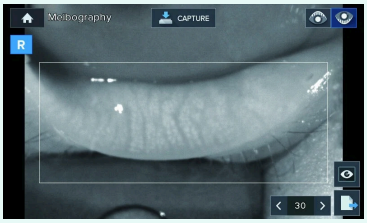
- Rifraksyun d kiratumetri deg yiwet n tesɣunt.
- Tunumitri war anermis d pakimitri deg yiwen n yibenk.

Iɣbula d yisemliyen

Rnu tamuɣliwin n uɣummu n tiṭ

Tamuɣliwin Color View, TFBUT d meibugrafi i d-yesbadu umeskar ttimkammalent akayad. Amallal n usersi d kiratumetri n yiran ttaken isallen ɣef tlentiyin n unermis.

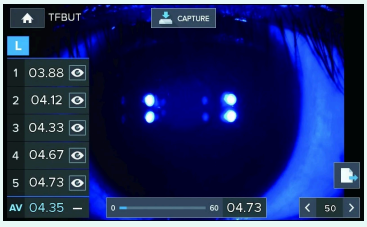
- TFBUT d meibugrafi deg ugrudem.
- Tamuɣli s yini i uɣummu n tiṭ d tlentiyin n unermis.



HTR-1A · Tugna

Tugna n umeskar. Tawila yettwaskanen tezmer ad temgarad ɣef tin ara d-yettunefken.

Iɣbula d yisemliyen



HTR-1A · Tugna

Tugna n umeskar. Tawila yettwaskanen tezmer ad temgarad ɣef tin ara d-yettunefken.

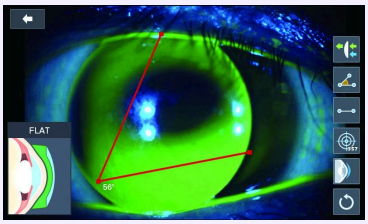
Iɣbula d yisemliyen

Iɣbula d yisemliyen

Ɛiwen asers n tlentiyin n unermis

Amallal n usersi isemras tafat tanilit d wazalen n kiratumetri n yiran.

- Tamuɣli n usersi s fluorescein.
- Asekyed n tkuẓẓi berra n tlemmast n lqerniya.



HTR-1A · Tugna

Tugna n umeskar. Tawila yettwaskanen tezmer ad temgarad ɣef tin ara d-yettunefken.

Iɣbula d yisemliyen

Iɣbula d yisemliyen

Tulmisin tigejdan

Anagraw 4-deg-1 yesdukkel tiwuriwin:

Arifraktumitr-keratumitr awurman.

Atunumitr s waḍu.

Apakimitr.

Asfuɣel awurman n tiṭ.

Anṭaf awurman n yikaten.

Aḍfar send d deffir ugzay n rifraksyun.

Taseddart n tlentiyin n unermis i yal amuḍin.

Aseggem n tlentiyin d usenqed awurman.

Akat n PIO i yal amuḍin.

Aḥkam n waḍu s useggem awurman d PIO.

Asemsawi s tuzert n lqerniya.

Takarḍa Zernike i tlentiyin tusligin.

Akat n tpupilt n tiṭ alamma ddaw n 2 mm.

Akat n yiris alamma 14 mm.

Takarḍa d usfukel Zernike zemren ad ttwaskanen s 2D d 3D, i usefhem n yisefka n usfir, asilindr, agellus d yiberṛučen n uswir ɛlayen.

Akat KER/REF s tneɣrut Mire s tnezmart ɛlayen d sin n yiɣbula LED i yisefka yettwasnasen n keratumetri.

Rifraktumetri tettunefk s telqay, s usemẓi n umuss n yirɣi n tmuɣli.

Akat n yiris d tpupilt n tiṭ s twuri n unṭaf n tugna.

Akat n yiris alamma 14 mm.

Akat n tpupilt n tiṭ alamma ddaw n 2 mm.

Takarḍa Zernike i tlentiyin tusligin.

Takarḍa d usfukel Zernike zemren ad ttwaskanen s 2D d 3D, i usefhem n yisefka n usfir, asilindr, agellus d yiberṛučen n uswir ɛlayen.

Askar n yiniten i tseddart n tlentiyin n unermis.

Aseggem n tlentiyin n unermis.

Asenqed awurman n users n tlentiyin.

Aseggem n tugna s flyuresin d umsizdeg anili kubalt.

Asiḍen awurman n umasay n ukrif n llsas n tlentiyin.

Anṭaf n tugniwin s umgarad d ukayad n users i tlentiyin RGP (tiqeṣḥanin i yettağğan lgaz).

Askan awurman n yisefka n ukrif n llsas n tlentiyin.

Askar n tafawt seg deffir i tiruẓi n ukristalin neɣ lecḍa n lqerniya.

Isefka n ukat SPH, CYL d AXIS.

Tawuri TFBUT i wakud n trẓi n tɣellayt n imeṭṭawen d tiṭ yeqquren.

Tawuri n meybugrafi s tetiknuluji n usebɣer n tugna.

Akat n yiri n lqerniya i useggem n tlentiyin n unermis: akat yetteddun n ukrif seg tlemmast ɣer ufella, ddaw, zelmaḍ d yefus.

Tulmisin titiknikanin

Akat n rifraksyun

Asfir (SPH): -30,00 ar +25,00 D.
Asilindr (CYL): 0,00 ar ±12,00 D.
Agellus (AX): 0 ar 180°.
Amecwar gar tpupilin n wallen (PD): 10 ar 85 mm.
Akdu adday n tpupilt n tiṭ: Ø2,0 mm.
Akat n ukrif n lqerniya:

Amasay n ukrif: 5,0 ar 13,0 mm.
Tanezmart n rifraksyun n lqerniya: 25,96 ar 67,50 D.
Astigmatism n lqerniya: 0,0 ar -15,00 D.
Agellus n yastigmatism: 0 ar 180°.
Akdu n lqerniya: 2,0 ar 14,0 mm.
Akat n tḍɣeṭ daxel n tiṭ (PIO):

Tilisa n ukat: 1 ar 60 mmHg.
Telqay: ±5,0 mmHg.
Akat n tuzert talemmast n lqerniya (CCT):

Tilisa n ukat: 300 ar 800 µm.
Telqay: ±10,0 µm.
Anermis: agdil LCD IPS s yiniten n 7 n yidudan, yettuknun alamma 85°, anallay arizistif i unadi yeshilen.

Tuqqna: inermisen RS-232C, USB, Ethernet d Wi-Fi i tuqqna akked yibenkan-nniḍen d yinagrawen n yisallen imadawanen.

Tisekta: 301 mm (Tehri) x 535 mm (Telqay) x 506 mm (Teɣzi).

Taẓayt: azal n 19 kg.

Ayɣer ad tefrneḍ HTR-1A?

Allal amadawan s waṭas n twuriwin

Asdukkel n rifraksyun, keratumetri, pakimetri d tunumetri i ukayad akliniki yemden.

Tallalt i waṭṭanen iwaɛren

Yettak isallen igejdanen i udiɣnustik d uḥkam n waṭṭanen n lqerniya, rifraksyun d glukuma.

Abrid n umahil iwulmen

Yesrus akud n yikayaden, yesnerni taflest-nsen, i tɣara n uḥraz d tnezzut n tklinik.

Tulmisin timadawanin tanernanin

1. Tasleḍt n biyumikanik n lqerniya

HTR-1A yesdukkel pakimetri d tunumetri war anermis i ukayad n PIO n yal amuḍin yettwaseɣtan s tuzert talemmast n lqerniya (CCT).
Yettɛawan asenqed n yimuḍan s yimih ɛlayen n glukuma neɣ waṭṭanen n lqerniya.

2. Aseggem n tlentiyin n unermis

Keratumetri tanernant tettak ikaten iṣeḥḥan n umasay n ukrif d yigellusen n yastigmatism n lqerniya, i useggem n tlentiyin tiqeṣḥanin d titurikin.
Aḍfar s telqay i urkad d lehna n tlentiyin deffir wakud.

3. Akayad n rifraksyun s waṭas n yimeqqimen

Adiyagnustik iṣeḥḥan n twali tamussant, ula deg tafat taddayt, s ulguritm n rifraksyun iwulmen i yimuḍan s katarakt neɣ ugur n yirɣi n tmuɣli.

4. Asenqed n wuguren n lqerniya

Anagraw s tafawt seg deffir yeskan ibeddilen n lqerniya am tiruẓi neɣ distrufi, i usenqed uzwir n waṭṭanen i yezemren ad ḍurren agradd.

5. Tikarḍiwin s telqay n yastigmatism

Tasleḍt s telqay n yiberṛučen n lqerniya d rifraksyun, i yigzayen am LASIK d usbeddi n yimplanten ituriken.

I wakken ad yishil ubrid n umahil

Ḍfer taneqqiḍt n uktil s kraḍ n tmeẓriwin

Mi tiṭ tella deg temnaḍt n uḍfar, amasay s kraḍ n tmeẓriwin isuddus taneqqiḍt n uktil u yessentay anṭaf. Yiwen n unadi yessentay amseḍfer n uktil n snat n wallen.

- Aḍfar awurman d unṭaf awurman s kraḍ n tmeẓriwin.
- Amseḍfer n uktil n snat n wallen s yiwen n unadi.

Iɣbula d yisemliyen

I useqdec n yal ass

Abrid arurad

Timellilin qqiment sehlent i umseḍfer.

Iɣbula d yisemliyen

Isefka yeshilen i tɣuri

Igmaḍ sehlen i uwali.

Iɣbula d yisemliyen

Abrid yetteddun

Akat yeddukel deg ukayad n umuḍin.

Iɣbula d yisemliyen

Lehna n terbaɛt

Aseqdec n yal ass yeqqim yettwasuddes.

Iɣbula d yisemliyen

Isallen itiknikanen d yisemliyen

Ticreḍt
Huvitz

Anaw
HTR-1A

Tatiknuluji
Arifraktyur / arifraktyur awurman

Aseqdec akliniki
Adiyagnustik d biyumetri

Tazwert taddayt n usfir
-30 D

Amecwar vertex 12 mm.

Iɣbula d yisemliyen

Tazwert tafellayt n usfir
25 D

Iɣbula d yisemliyen

Tazwert tafellayt n usilindr
12 D

Iɣbula d yisemliyen

Akdu adday n tpupilt n tiṭ
2 mm

Iɣbula d yisemliyen

Tuqqna
RS-232 · USB i useɣti · Ethernet · Wi-Fi · Tuffɣa n uvidyu ar berra

Iɣbula d yisemliyen

Tilisa n useggem
Ibeddi s umata 83 mm; ɣef yidis 90 mm; ɣef teɣzi 40 mm; asersi n tmart 65 mm

Iɣbula d yisemliyen

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

Iɣbula d yisemliyen

Tisekta
301 × 535 × 506 mm

Iɣbula d yisemliyen

Taẓayt
23.8 kg

Iɣbula d yisemliyen

Amecwar vertex 12 mm.

Asider d yiɣbula

- https://huvitz.com/wp-content/uploads/2024/10/HTR-1A_8p_eng_20220222.pdf
  Aɣbalu yettwasentem ass n 2026-10-05
- https://huvitz.com/wp-content/uploads/2024/10/HTR-1A_8p_eng_20220222.pdf
  Aɣbalu yettwasentem ass n 2026-08-30
- https://huvitz.com/en/product/htr-1a/
  Aɣbalu yettwasentem ass n 2026-08-30
- https://huvitz.com/ko/product/htr-1a/
  Aɣbalu yettwasentem ass n 2026-10-18

Isteqsiyen-nwen ɣef HTR-1A

D acu Tazwert taddayt n usfir iɣef llan yisemliyen n HTR-1A?

-30 D — Amecwar vertex 12 mm.

Iɣbula d yisemliyen

D acu Tazwert tafellayt n usfir iɣef llan yisemliyen n HTR-1A?

25 D

Iɣbula d yisemliyen

Anta tawila i ilaq ad sentmeɣ i HTR-1A?

Amecwar vertex 12 mm.

Iɣbula d yisemliyen

Amek yemgarad ɣef awturifraktukiratumitr iman-is?

HTR-1A yernu tunumitri war anermis d pakimitri ɣer rifraksyun d kiratumetri. Akk ukkuẓ n twuriwin ttwabdrent i lqem-a yettwasdukklen.

Iɣbula d yisemliyen

D acu i ixeddem uḍfar awurman?

Mi tiṭ tella deg temnaḍt n uḍfar, amasay yeṭṭafar s kraḍ n tmeẓriwin, isuddus taneqqiḍt n uktil u yessentay anṭaf. Amussnaw iheggi asers n umuḍin.

Iɣbula d yisemliyen

Ibenk yesɛa kan ukkuẓ n yiktilen igejdanen?

Ala. Ameskar isbadu daɣen Color View, TFBUT, meibugrafi, iwellihen i usersi n tlentiyin n unermis d kiratumetri n yiran.

Iɣbula d yisemliyen

Ifarisen icudden



HRK-1

Huvitz

Allalen awurmuyen n uktazal n tɣuri d yiɣallen n tɣeryert

Rifraksyun, keratumetri d tallalt i usmṣada n lentiyat n unermis.

Wali afaris



HRK-8100A

Huvitz

Allalen awurmuyen n uktazal n tɣuri d yiɣallen n tɣeryert

Rifraksyun tawurmant s keratumetri n tlemmast d yiri.

Wali afaris



HRK-9000A

Huvitz

Allalen awurmuyen n uktazal n tɣuri d yiɣallen n tɣeryert

Rifraksyun d ukayad n tmaẓirt n tiṭ deg yiwen n yibenk.

Wali afaris



Eyestar 900

Haag-Streit

Tabiyumitrit taẓrant

Biyumetri taḍwant d keratumetri s unagraw EyeSuite.

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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