Allalen awurmuyen n uktazal n tɣuri d yiɣallen n tɣerɣert

HRK-8100A

Rifraksyun tawurmant s keratumetri n tlemmast d yiri.

HRK-8100A d arifraktumitr-keratumitr s umdes n Imujat n Huvitz. Iseqdac agraw n mikru-tlentiyin s timiḍi n tlentiyin timeẓyanin, i waṭas n yigazen n yisefka i udiɣnustik iṣeḥḥan n tucḍiwin n rifraksyun. Ibenk yeskan daɣen iberṛučen n uswir ɛlayen s tkarḍa Zernike, i usefhem n tiṭ n umuḍin d ufran akliniki. Imeḍqan usligen i tlentiyin daxel n tiṭ d katarakt, d uskar n twali s yiniten i users n tlentiyin n unermis.



HRK-8100A · Tugna

Iɣbula d yisemliyen

Suter tasɣunt n ssuma

Wali afaris

Tettwahegga ass n 2026-11-10

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

Iferdisen igejdan

Rifraksyun tawurmant

SPH seg −30 ar +25 D; CYL alamma 12 D.

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

Lqerniya n yiri

Keratumetri n tlemmast d yiri deg yiwen n ukayad.

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

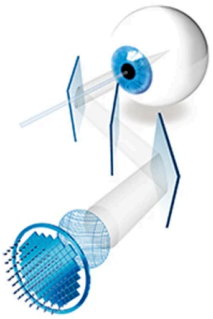
Akrif n lentiyat

Akat n ukrif n lentiyat n unermis.

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

Wali amdes n lmujat

Takarḍa n rifraksyun teskan ibeddilen iwulmen i tesleḍt taḍwant.



HRK-8100A · Tugna

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

Iɣbula d yisemliyen

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

Tasleḍt s telqay n yiberṛučen

Tasleḍt Zernike tesuddes iberṛučen deg yiwen n uskan uslig.

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

Serwes ikaten

Aneqqis yesdukkel azalen n rifraksyun d keratumetri i tɣuri yettwasuddesen.

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

Keratumetri n yiri

Iɣbula d yisemliyen

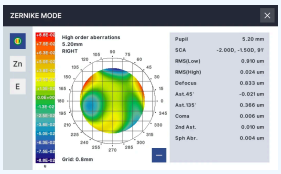
Akat n ukrif n tlentiyin

Iɣbula d yisemliyen

Ɣer aberrer deg tkarḍa Zernike

Agraw n tlentiyin timeẓyanin yettkatil amdes n lmujat. Rnu ɣer sfer, asilindr d ugellus, takarḍa Zernike teskan coma, trefoil d ubarrer asferik, gar wayen nniḍen.

- Igmaḍ n sfer, asilindr d ugellus.
- Asken n yiberreren s Zernike.



HRK-8100A · Tugna

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

Iɣbula d yisemliyen



HRK-8100A · Tugna

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

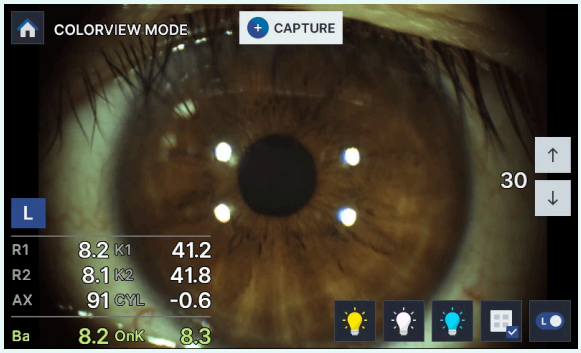
Iɣbula d yisemliyen

Iɣbula d yisemliyen

Rnu tamuɣli ɣer yiktilen

Iskaren IOL d retro-illumination ttimkammalen iktilen deg tegnatin n yimplanten d yibardaɛen n ukristalin i d-yettwasbadun. Color View tettak tamuɣli s yini n tiṭ d usersi n talentit n unermis.

- Takamiṛat n yini d LED amellal i Color View.
- Iskaren IOL d retro-illumination yal yiwen iman-is.



HRK-8100A · Tugna

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

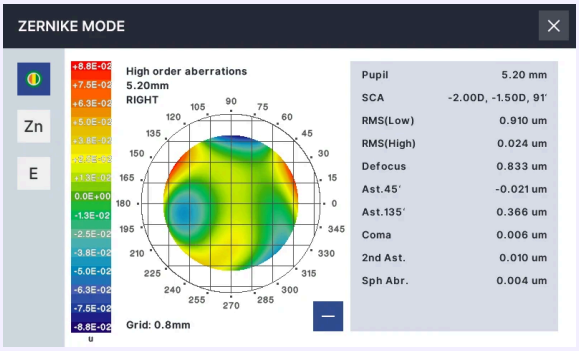
Iɣbula d yisemliyen

Iɣbula d yisemliyen

Ssefru iberreren n uswir ɛlayen

Takarḍa Zernike tettimkammal azalen n rifraksyun s usken n yiḥricen n umdes n lmujat.

- Coma, trefoil d ubarrer asferik.
- Astigmatism wis sin d tetrafoil.



HRK-8100A · Tugna

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

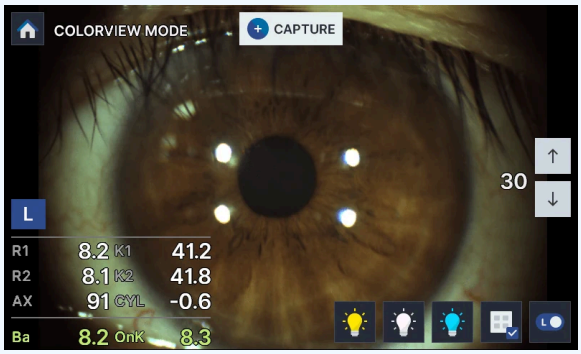
Iɣbula d yisemliyen

Iɣbula d yisemliyen

Sers ticraḍ n umeqqar

Anṭaf n tiṭ yettağğa aktil n iris d teberract deg uskar uslig.

- Tagrumma n umeqqar seg 2 ar 14 mm.
- Tamuɣli s yini i usekyed n talentit n unermis.



HRK-8100A · Tugna

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

Iɣbula d yisemliyen

Iɣbula d yisemliyen

Tiwuriwin tigejdan

Tatiknuluji n umdes n lmujat: agraw n mikru-tlentiyin n Huvitz yesleḍ aṭas n yigazen n umdes n lmujat n tafat i usenqed iṣeḥḥan n tucḍiwin n rifraksyun.

Takarḍa n yiberṛučen: rnu ɣer yisefka imensayen (asfir, asilindr, agellus), HRK-8100A yettak takarḍa n yiberṛučen n uswir ɛlayen i usefhem s telqay n tiṭ n umuḍin d ufran akliniki.

Askar IOL d RET-ILLUM: i wallen s tlentiyin daxel n tiṭ neɣ katarakt; yeskan tiruẓi n ukristalin neɣ lecḍa n lqerniya s tlentiyin n unermis.

Askar n twali s yiniten: takamiyut CCD s yiniten d aɣbalu LED amellal i ukayad n users n tlentiyin n unermis, tawuri i yellan zik i tftilin n tfexsiḍt.

Anermis yeshilen: izamulen yemṣadan d yiniten ifessasen ssrusun aɛeyyu n wallen, i unadi yeshilen.

Tulmisin timadawanin

Tasleḍt s umdes n lmujat:

Agraw n mikru-tlentiyin i ukat s telqay n tucḍiwin n rifraksyun d yiberṛučen.
Takarḍa n yiberṛučen Zernike:

Teskan iberṛučen n uswir ɛlayen i tesleḍt s telqay n tɣara taḍwant n tiṭ.
Imeḍqan usligen (IOL d katarakt):

Akayad uslig i wallen s tlentiyin daxel n tiṭ neɣ katarakt.
Akayad n tlentiyin n unermis:

Tamuɣli s yiniten i useggem iṣeḥḥan n tlentiyin seg yibenk.
Tatiknuluji LED d tkamyut CCD:

Asebɣer n tugniwin d yikaten i telqay taklinikant.

HRK-8100A deg umahil amadawan

Adiyagnustik iṣeḥḥan, arurad:

Tatiknuluji n umdes n lmujat d tkarḍa n yiberṛučen Zernike n HRK-8100A ttağğant tasleḍt s telqay n tucḍiwin n rifraksyun i tseddart iṣeḥḥan.

Akayad yemden n tiṭ:

Imeḍqan usligen i tlentiyin daxel n tiṭ d katarakt ttwalmmen i yimuḍan s waṭṭanen iwaɛren, ttağğan ikaten yettwasnasen.
Aḥraz n yal amuḍin:

Tamuɣli s yiniten n tlentiyin teshel aseggem-nsent, tesrus aɛeyyu, tesnerni rṛḍa n yimuḍan.
Arbaḥ n wakud i yimassanen:

Anermis yeshilen d twuriwin tanernanin seshlen ikayaden, i uḥraz arurad, iwulmen.

Lehna n yimuḍan:

Ikaten war anermis agensu d tetiknuluji tanernant seshlen akayad, s yigmaḍ s tɣara ɛlayen.

Zernike

Tasleḍt s umdes n lmujat:

Agraw n mikru-tlentiyin i ukat s telqay n tucḍiwin n rifraksyun d yiberṛučen.
Takarḍa n yiberṛučen Zernike:

Teskan iberṛučen n uswir ɛlayen i tesleḍt s telqay n tɣara taḍwant n tiṭ.
Imeḍqan usligen (IOL d katarakt):

Akayad uslig i wallen s tlentiyin daxel n tiṭ neɣ katarakt.

I wakken ad yishil ubrid n umahil

Ktil talemmast d yiran n lqerniya

Kiratumetri n yiran tessekles tikuẓẓi d eksantrisiti berra n tlemmast. Amallal n users yesdukkel tamuɣliwin s tafat tanilit d wazalen n kiratumetri.

- Asekyed n tkuẓẓi berra n tlemmast n lqerniya.
- Iɣewwaren n tkuẓẓi d eksantrisiti.

Iɣbula d yisemliyen

I useqdec n yal ass

Heggi aselmes uqbel aktil

Aḍfar awurman d unadi n teɣzi ttɛawanen asers n umuḍin.

- Inadiyen n usali d usrus.
- Iwellihen n unṭaf deg ugrudem.

Iɣbula d yisemliyen

Isallen itiknikanen d yisemliyen

Ticreḍt
Huvitz

Anaw
HRK-8100A

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

Tilisa n useggem
Deg ibeddi 30 mm; ɣef yidis 10 mm; ɣef teɣzi 10 mm; asersi n tmart 60 mm

Iɣbula d yisemliyen

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

Iɣbula d yisemliyen

Tisekta
524 × 262 × 439 mm

Iɣbula d yisemliyen

Taẓayt
20.5 kg

Iɣbula d yisemliyen

Amecwar vertex 12 mm.



HRK-8100A · Tugna

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

Iɣbula d yisemliyen

Asider d yiɣbula

- https://huvitz.com/wp-content/uploads/2025/02/20241203_HRK-8100A_eng_catalog_v2.pdf
  Aɣbalu yettwasentem ass n 2026-10-05
- https://huvitz.com/en/product/hrk-8100a/
  Aɣbalu yettwasentem ass n 2026-08-30
- https://huvitz.com/en/product/hrk-8100a/
  Aɣbalu yettwasentem ass n 2026-10-18
- https://huvitz.com/wp-content/uploads/2025/02/20241203_HRK-8100A_eng_catalog_v2.pdf
  Aɣbalu yettwasentem ass n 2026-10-18

Isteqsiyen-nwen ɣef HRK-8100A

D acu Tazwert taddayt n usfir iɣef llan yisemliyen n HRK-8100A?

-30 D — Amecwar vertex 12 mm.

Iɣbula d yisemliyen

D acu Tazwert tafellayt n usfir iɣef llan yisemliyen n HRK-8100A?

25 D

Iɣbula d yisemliyen

Anta tawila i ilaq ad sentmeɣ i HRK-8100A?

Amecwar vertex 12 mm.

Iɣbula d yisemliyen

Anta iktilen n iris d teberract i yettwaseknen?

Tawriqt teskan aktil n umeqqar s tugna seg 2 ar 14 mm. Tferrez aktil-a ɣef yiskaren n rifraksyun, kiratumetri d tmuɣli s yini.

Iɣbula d yisemliyen

D acu i ternu tkarḍa Zernike ɣer yigmaḍ SPH/CYL/AX?

Teskan coma, trefoil, abarrer asferik, astigmatism wis sin d tetrafoil, gar wayen nniḍen. Iḥricen-a ttimkammalen azalen imagnuten n rifraksyun.

Iɣbula d yisemliyen

Anta iskaren n tmuɣli i yettwaseknen?

Asebter n umeskar iferrez gar Color View, IOL d retro-illumination. Takamiṛat n yini d LED amellal ttɛawanen tamuɣli n tiṭ; amallal n usersi n tlentiyin n unermis isemras tafat tanilit.

Iɣbula d yisemliyen

Ifarisen icudden



HRK-9000A

Huvitz

Allalen awurmuyen n uktazal n tɣuri d yiɣallen n tɣerɣert

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

Wali afaris



HRK-1

Huvitz

Allalen awurmuyen n uktazal n tɣuri d yiɣallen n tɣerɣert

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

Wali afaris



HTR-1A

Huvitz

Allalen awurmuyen n uktazal n tɣuri d yiɣallen n tɣerɣert

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

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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Lqem n yisemli: 98904db68b72