

7/13/2010 12:29:58 PM

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[Last Edit: 6/11/2009 12:24:36 AM AWST by TNVC]

CLNV WYJ Night vision goggles (other names WGT46-1 or WT212-1) produced by HiOptic





Russian Katod NVM monocular license produced in China. At least some of these could be equipped with Russian Gen3 tubes with 57-64 lp/mm resolution



FIGURE 1



New generation of NVGs include LUCIE-NVT low profile goggles, originally a French design (Thales Angenieux), as well as BIM4 low profile monocular with integrated head-up display, similar to AN/PVS-21. (Swiss designed by Leica Vectronix). LUCIE is a standard goggle in French, Austrian and German armed forces.





Visual integration
of battlefield data

Vectronix BIM4



Edited to bold the title

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TNVC

Industry Partner
Joined: Jan 2002
USA

Tactical Night Vision Corporation

Posts: 14604

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Posted: 28/10/2009 6:19:34 AM AWST

Great start, thanks for sharing!

Vic

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cj7hawk

Posts: 62

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Joined: Nov 2008



Member AUS

Posted: 28/10/2009 7:40:48 AM AWST

[Last Edit: 15/5/2010 9:56:25 PM AWST by cj7hawk]

I'll add a few that are manufactured in Iran
NVS-700
Shabanoor 1001
Night Driver Periscope.
Shabdiz SA230

Note: edited out faulty links.

Notice the mounting on the Shabanoor 1001 ? It's the same head-mount socket that the US military use for the PVS-7/14.

I believe a lot of this equipment was made under license from US companies, so it's probably exactly the same as US equipment.

David

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Member
Joined: Nov 2008
 AUS

Posted: 28/10/2009 7:51:25 AM AWST

India has a few problems with Night Vision - They have widely criticized their manufacturers over the past few years, but they do make Gen2 and Thermal devices.
I don't have pictures of the Gen2 devices, but they had a very poor reputation. Here's some of their thermal devices.

Beauti 0602

852 X 600 Pixels OLED Display - This is weapon mountable too and can take photos. Fairly modern.

BETI 0109 (under license from Israel)

Bebti 0503

Though look closely - It's a binocular intended for patrolling on foot - I almost fell off my chair when I noticed.
"Lightweight" they claim.

David

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last_lancer

■ Posts: 259

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Member
Joined: Oct 2007
 DEU

Posted: 28/10/2009 8:22:55 AM AWST

[Last Edit: 28/10/2009 8:24:11 AM AWST by last_lancer]

As for Indian Night Vision, most of the stuff is made by BEL - Bharat Electronics. They even make their own licensed image intensifiers, mostly older Gen2 (XX1440, XX1450, XX1470) and SuperGen.

Standard Indian goggles are called PNVG 102A and are offered with a variety of magnified lens for handheld use under strange names like Sanjay Drishti.



Indian Commandos with PNVG 102A



Standard NV weapon sight is Bharat PNS Mk1 (Passive Night Sight)





Other designs include Bharat BENWS 9701 weapon sight or Bharat BENS 9304 monocular



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Member
Joined: Oct 2007
DEU

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Posted: 28/10/2009 8:56:56 AM AWST

Now to latest hi-tech from all over the world - thermal weapon sights

Piton (Python) family of sights made by Turkish company ASELSAN. The cores are seemingly based on European technology (384x288 uncooled VOx FPA)



ASELSAN Piton Boa LTWS



ASELSAN Piton HTWS on HK33 rifle



Polish thermal weapon sight CTS-1 by PCO corporation. The monocular on the last pic is 'Polish PVS-14' called PCO MU-3





More polish thermal weapon sights - this time by Etronika company - ZTOCS-1 ACRAБ



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Member
Joined: Oct 2007
 DEU

Posted: 28/10/2009 9:04:06 AM AWST

[Last Edit: 28/10/2009 3:49:00 PM AWST by last_lancer]

Evil commie stuff includes Cyklon Shahin - first Russian TWS available on the civil market, sort of local ELCAN SpecterIR :)





Now two devices of CS6000 HTWS class.. Russian MilSpec NPZ 1PN116 heavy thermal weapon sight and Chinese HTWS with 640x480 uncooled sensor mounted on their HSAI LR2A 50cal sniper rifle





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cj7hawk

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 Member
Joined: Nov 2008
 AUS

Posted: 28/10/2009 9:59:19 PM AWST

Pakistan makes it's NV under license at the Institute of Optronics (Govt Organisation) - It has trouble making sufficient supply for it's own troops.



TVS-5A, PVS-5A
DNVP-1A, PVS-4A (Gen3)
ANVG (From PVS-5A), NVB-4A/5A
PVS-7, D300 (I think)



David.

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avengeusa

Posts: 18810

Offline



Member
Joined: Dec 2001
USA

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Posted: 28/10/2009 10:13:37 PM AWST

looks like the nv cat is completely out of the bag

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Posts: 66

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Member
Joined: Nov 2008
AUS

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Posted: 28/10/2009 10:21:39 PM AWST

Israel subsidiary of Star Night Technologies, New Noga Light make a lot of Gen2 and Gen3 product and supply it to places such as India and Africa.

NL62



NL63



NL-61/M3



NL-67



NL74B



NL76B



NL-300 DAY/NIGHT scope



NL-90



NL-91



NL-92B



NL93-ANVIS



NL-93G



NL-50



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**Molotov357**

★ **Team Member**
 Joined: Aug 2008
 🇺🇸 TN, USA

Capitalist Dog

■ Posts: 4018

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Posted: 28/10/2009 10:54:09 PM AWST

Soviet designed NSPU 1PN34

Uses 3 gen 1 tubes in cascade for very good gain and has decent resolution to boot. Can be bought on ebay for less than \$300.



Si vis pacem, para bellum.

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**TNVC**

🎲 **Industry Partner**
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 🇺🇸 USA

Tactical Night Vision Corporation

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Posted: 28/10/2009 10:57:53 PM AWST

I smell a **TACKY** thread coming up! Nice work guys!

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BrandonP

■ Posts: 2436

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Member
 Joined: Aug 2004
 🇺🇸 PA, USA

Posted: 29/10/2009 3:52:17 AM AWST

FWIW, the IDF used to use the Akilah exclusively and switched to the Lior. My unit received our Lior scopes during our deployment on the border of Lebanon. Some people love them, some hate them compared to the Litton Akilahs.

The Lior is 3x, fixed focus, with a reticle similar to the IDF Trij reticle.

The Akilah has its own unique reticle, and is a 4x variable power optic. Both use AA batteries. The Akilah weighs in at twice the weight of the Lior!

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ChampFerguson

■ Posts: 561

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Joined: Mar 2006

 Member  TX, USA

Posted: 29/10/2009 5:38:08 AM AWST

Fantastic thread! The spec data is especially interesting. Thanks to all for posting this stuff!

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cj7hawk

 Posts: 67

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 Member
Joined: Nov 2008
 AUS

Posted: 29/10/2009 6:20:45 AM AWST

Japanese PDF-14 Night Vision Scope.



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TNVC

Tactical Night Vision Corporation

 Posts: 14618

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 Industry Partner
Joined: Jan 2002
 USA

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Posted: 29/10/2009 6:46:46 AM AWST

Originally Posted By cj7hawk:

Japanese PDF-14 Night Vision Scope.

<http://upload.wikimedia.org/wikipedia/commons/thumb/4/41/070907-jgsdf.jpg/800px-070907-jgsdf.jpg>

Gosh, is it just me (or the camera), but that 14 looks **HUGE** on his head! 

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karma

It does spin.

 Posts: 2966

 Online

 Team Member
Joined: Jan 2003
 TX, USA

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Posted: 29/10/2009 8:25:52 AM AWST

Originally Posted By last_lancer:

Evil commie stuff includes Cyklon Shahin - first Russian TWS available on the civil market, sort of local ELCAN SpecterIR :)

<http://i132.photobucket.com/albums/q35/flex297/CyklonShahinmilitaryTWS.jpg>

<http://i132.photobucket.com/albums/q35/flex297/CyklonShahinmilitarysight2.jpg>

<http://i132.photobucket.com/albums/q35/flex297/CyklonShahinmilitarysight4.jpg>

Now two devices of CS6000 HTWS class.. Russian MilSpec NPZ 1PN116 heavy thermal weapon sight and Chinese HTWS with 640x480 uncooled sensor mounted on their HSAI LR2A 50cal sniper rifle
<http://i132.photobucket.com/albums/q35/flex297/NPZ1PN116thermalsight.jpg>
<http://i132.photobucket.com/albums/q35/flex297/HSAILR2A127mmrifleChina.jpg>

640x480 is quite good. Only a few US systems are using "hi-def" 1080x768 right now. Most systems are still 320x240. I'm suprised the Chinese are producing this system- wonder where they got it? 🤔

Ident Marking- We're pretty good at speling stuff on gunns.

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cj7hawk

Posts: 68

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Member
Joined: Nov 2008
AUS

Posted: 29/10/2009 9:45:54 AM AWST

Originally Posted By karma:

Originally Posted By last_lancer:

Evil commie stuff includes Cyklon Shahin - first Russian TWS available on the civil market, sort of local ELCAN SpecterIR :)

640x480 is quite good. Only a few US systems are using "hi-def" 1080x768 right now. Most systems are still 320x240. I'm suprised the Chinese are producing this system- wonder where they got it? 🤔

The Beauti 0602 manufactured in India (Uncooled thermal) with a resolution of 852x600 would be considered high-def and is weapon mountable.

The technology required to produce electronics is a lot less complicated than the technology required to produce high-end vacuum devices with MCPs. There are already high resolution CCDs that have been made sensitive to SWIR/MWIR and even LWIR in the lab... In another decade, anyone who can manufacture a computer chip will be able to make thermal devices and most of this research is going on outside of the US.

David.

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cj7hawk

Posts: 69

Online

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Member
Joined: Nov 2008
AUS

Posted: 29/10/2009 7:35:34 PM AWST

Made in Taiwan... It's not just what you find in the toy section anymore -though it certainly looks like it -

Jiun An Technology make stuff that looks almost like a toy version ripoff of US devices - Except it's comparable with Gen3 or XD4. PR of around 700 and up to 72 lp/mm/
NVS-14



That plastic looks nasty, yet for some reason it really appeals... The advertising slogan is good too - "Better than anything you can export from the US!" That's too funny, though sadly true.

The "Brand" is Raysun.... I suppose that got lost in the server translation too.



It still looks plastic, but it's probably quite effective.

There's some video, but it's a better example of incredible zoom - About 27x - It's a telescope designed to attach to NVDs.

[Video - high zoom](#)

There's a PVS-7 knockoff as well - NVS-7





NVS-III - Something for the 40YO kids...





This company makes security and police devices as well as military so despite the cheap plastic look, these are probably highly functional devices.

David

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cj7hawk

■ Posts: 70

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Member
Joined: Nov 2008
 AUS

Posted: 29/10/2009 10:05:44 PM AWST

More Russian Equipment - Mainly as used by the Spetsnaz -

1PN93-4



1PN14K



PN16K



YUT-1M



PN-17K



I'm not sure how stable the images are - Let me know if they disappear.

David

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cj7hawk

■ Posts: 71

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Member
Joined: Nov 2008
 AUS

Posted: 30/10/2009 6:53:43 PM AWST

[Last Edit: Today 1:06:52 PM AWST by cj7hawk]

UK

Ferranti Night Vision Goggles from the UK - ANVIS replacement.



The also have a "HUD" module to augment this information.

Dead links removed... 22/10/2010

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Mrf2

■ Posts: 237

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Member
Joined: Feb 2001
 USA

Posted: 30/10/2009 7:51:32 PM AWST

Originally Posted By cj7hawk:
Japanese PDF-14 Night Vision Scope.
<http://upload.wikimedia.org/wikipedia/commons/thumb/4/41/070907-jgsdf.jpg/800px-070907-jgsdf.jpg>

I would bet that that scope is an American AN/PVS-14, note he is wearing a USMC issue light weight kevlar with MARPAT cover. US made helmet mount as well.

Mrf2

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cj7hawk

■ Posts: 72

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Member
Joined: Nov 2008
 **AUS**

Posted: 30/10/2009 9:39:14 PM AWST

I know it's a contentious subject, but Japanese technology in this area rivals the US. They use NV for research quite extensively and are more than capable of making very advanced tubes. Some of their 3rd generation tubes provide an order of magnitude more gain than the best available US tubes - with gain figures nearing a million (Best US are about 100,000) and with a >1500 uA/lm GaAs PC. They also make InGaAs tubes which can see laser designators and illuminators that are invisible to US NV devices - up to a full 300nm higher than Gen3 and that allow "Night Glow" to be utilised- ie, every night looks like full moon. They also make both filmless and filmed GaAs tubes.

Hamamatsu Tube Information

It could be a US tube in the picture, but given Japanese national pride I'd take a stab at it being a Hamamatsu. Then again, sometimes it's easier to just buy whatever's available.

I can't really base that on any evidence since I can't see what tube is in it - Though Last Lancer might actually know for certain.

David

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cj7hawk

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Member
Joined: Nov 2008
 **AUS**

Posted: 30/10/2009 10:58:24 PM AWST

[Last Edit: 15/5/2010 9:52:37 PM AWST by cj7hawk]

More from China,

From the Shenzen Ronger factory (Something is ronger with this model. It looks just like all the others...)



MHB - Seems kind of familiar, though this one has "Red" bits... Nice "distinguishing" feature.





However there are more original companies.

Note: Edited out broken links.

David

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murderman
★ Team Member
Joined: Feb 2005
TX, USA

Toy-o-Heeper
Posts: 2824

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Posted: 31/10/2009 5:31:47 AM AWST

[Last Edit: 31/10/2009 6:05:31 AM AWST by murderman]

This thread exemplifies the importance of active IR discipline.

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cj7hawk

Posts: 74

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Member
Joined: Nov 2008
AUS

Posted: 31/10/2009 8:27:50 AM AWST

[Last Edit: 31/10/2009 8:38:20 AM AWST by cj7hawk]

Originally Posted By murderman:
This thread exemplifies the importance of active IR discipline.

I think the picture above also highlights the need for weapons discipline... Obviously the soldier in the back has never seen pulp fiction.

But you're right about IR discipline. From a military perspective it's important to remember that an aiming laser is like tracer - it identifies your position to the enemy also. Using active IR is also going to be a problem inside dark buildings.

I don't think that the US encountered a lot of enemy equipped with Night Vision in recent conflicts though that's clearly not going to be the case much longer. Despite ITAR (or maybe even because of it) insurgents will eventually get hold of NV gear and will be able to use it as well.

I went up against a foe equipped with night vision equipment a long time ago on exercise. It wasn't a pleasant experience and highlighted to me the importance of such equipment on the modern battlefield. A single person went around while I was on Sentry duty and took several weapons from sleeping sentries. I was fortunate enough to be awake and I heard him. Peering into blackness, I knew he was only meters away and I was sure I was pointing my SLR right at him, but the only thing I saw in the three minutes this went on was the ignition flash of the flashbang just before it went off in my face ensuring that I couldn't see anything as they ran off. At least I didn't lose my rifle but I have no doubt he was toying with me before he got tired of it.

The problem is that there's not enough NV gear to go around. It's a critical piece of kit that you need now as much as you need your rifle. Even the US suffers from a lack of gear there but I think it was fairly widely deployed in Iraq even if soldiers were still using Gen2 at times.

In places like India, only around 10% of the armed forces have any night vision (including very old stuff) and some of their tanks can't drive at night at all. Give it three or four more years though and there will be a lot more Night Vision equipment available. Even if it is Gen2, there's not that much difference between modern Gen2 and Gen3 and it's possible that the US may one day even face an enemy with SWIR NVDs which then makes the US Gen3 useless.

David.

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Foreign night vision (Page 1 of 3)

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