

CITY OF CAPE CORAL REQUEST FOR SOLE SOURCE OR SINGLE SOURCE PURCHASE

Requesting Department: Police Department

Vendor Name: Sure Shot Night Vision

Address: 2791 East 2070 Road, Hugo, OK 74743

Phone: 832.773.7003

Price: \$12,200.00

Description of item to be procured:

Two (2) L3 Harris Image Intensifier for Sniper Optics.

1.) Uniqueness of vendor's item/service. How is this vendor the only vendor uniquely qualified to provide the product or service:

Sure Shot Night Vision is the only company that currently offers replacement tubes for our sniper optics to rebuild them rather than replace the entire unit.

2.) Market Research. Describe other, similar sources or products available in the market, if any, and why they are not acceptable:

There are no other companies in the US offering rebuild parts, only replacement. And they offer lifetime warranty on collimation and the rebuild of the scopes.

3.) Proposed Actions. Describe the actions the department will take to overcome the present barriers to competition for any future acquisition of this product or service:

We will continue to research and keep up with trends and products as they become available.

Department Director's Signature: _____ **Date:** 3/11/25

Approval: Procurement Manager Wanda Roop (not to exceed \$50,000.00) **Date:** 3/17/25

Approval: City Manager _____ (not to exceed \$100,000.00) **Date:** _____

Best value

Council authorization required if exceeding \$100,000.00



To Whom It May Concern:

Sure Shot Night Vision is currently the sole source for night vision clip on retube services in the United States. We are the only company that is currently offering the service as well as the lifetime warranty on collimation and build.

Jarred Crymes

A handwritten signature in black ink, appearing to read 'Jarred Crymes', written in a cursive style.

Owner



Sure Shot Night Vision

2791 East 2070 Road
Hugo, OK 74743
www.sureshotnightvision.com
832.773.7003

QUOTE

| | |
|-------------|------------|
| DATE | 3/10/25 |
| QUOTE # | 0325_10001 |
| VALID UNTIL | 4/9/25 |

Prepared by: A. Crymes

CUSTOMER

ELLEN STOMPANATO
CAPE CORAL POLICE DEPARTMENT
1100 CULTURAL PARK BLVD
CAPE CORAL, FL 33990
239-574-0685 (4685)

| DESCRIPTION | QTY | AMOUNT |
|--|----------|-----------|
| L3Harris Image Intensifier white phosphor 2376+ FOM (for MUNS) | 2 @ 6000 | 12,000.00 |

TERMS AND CONDITIONS

| | |
|--------------|---------------------|
| Subtotal | 12,000.00 |
| Taxable | - |
| Tax rate | 0.000% |
| Tax due | - |
| Shipping | 200.00 |
| TOTAL | \$ 12,200.00 |

If you have any questions about this price quote, please contact
Sure Shot Night Vision | 832.773.7003

(<https://www.sureshotnightvision.com/>)

[HOME\(https://www.sureshotnightvision.com/\)](https://www.sureshotnightvision.com/)

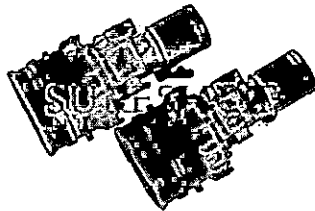
[ABOUT US\(https://www.sureshotnightvision.com/about-us/\)](https://www.sureshotnightvision.com/about-us/)

[SHOP\(https://www.sureshotnightvision.com/shop/\)](https://www.sureshotnightvision.com/shop/)



CLIP-ON SERVICES

SURE SHOT NIGHT VISION NOW OFFERS RETUBE AND COLLIMATION



SERVICES ON THE FLIR AN/PVS-27 AS WELL AS OTHER CLIP ON OPTICS

We are proud to announce that we are offering a new service available exclusively here at Sure Shot Night Vision LLC. We are offering retubes with your choice of modern image intensifier tubes and recollimation of your clip-on device.

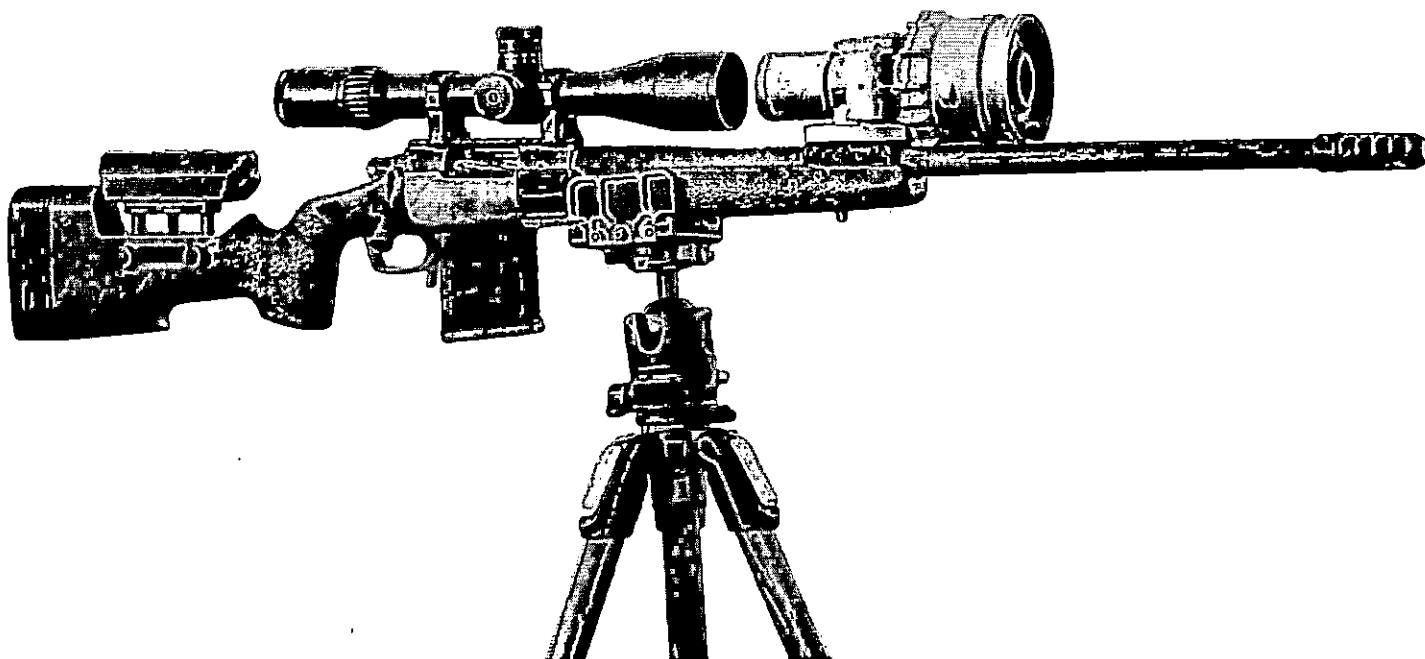
The PVS-27 is well known as one of the best night vision clip-ons and is the first clip on device we re-tubed in house here at SSNV.

Jay has worked endlessly on clip-ons and now offers his clip-on services in the AN/PVS-27, AN/PVS-24 2124-LR, AN/PVS-26 and AN/pvs-22.

Our retubing process will consist of the following:

- Inspection of your clip-on and note all repairs upon receiving.
- Remove and replace the image intensifier tube with the new tube you choose
- Collimation (boresight) of optic to within 1 MOA and testing accuracy of optic
- Repair and replace any defective hardware such as screws and mounts
- Coating of optical housing using Cerakote from CP Tactical Solutions
- New data plate with your new tube serial number

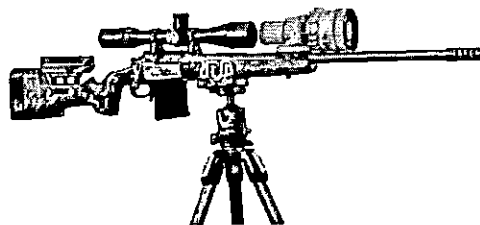
All units that have been retubed with Sure Shot Night Vision LLC will come with 3 year limited warranty and a lifetime guarantee on collimation. The limited warranty will cover workmanship defects and any defect that was not done by the user.



GET IN TOUCH

We are a small business that takes pride in having excellent customer service. Our main focus is taking care of our customers and making sure they are educated and comfortable with any purchase they make.

Phone: 832.773.7003 (tel:832.773.7003)
Email: sales@sureshotnightvision.com
(<mailto:sales@sureshotnightvision.com>)



TERMS AND CONDITIONS

REFUND(https://www.sureshotnightvision.com/refund-POLICY_policy/)

Privacy Policy (<https://www.sureshotnightvision.com/wpautoterms/privacy-policy/>)

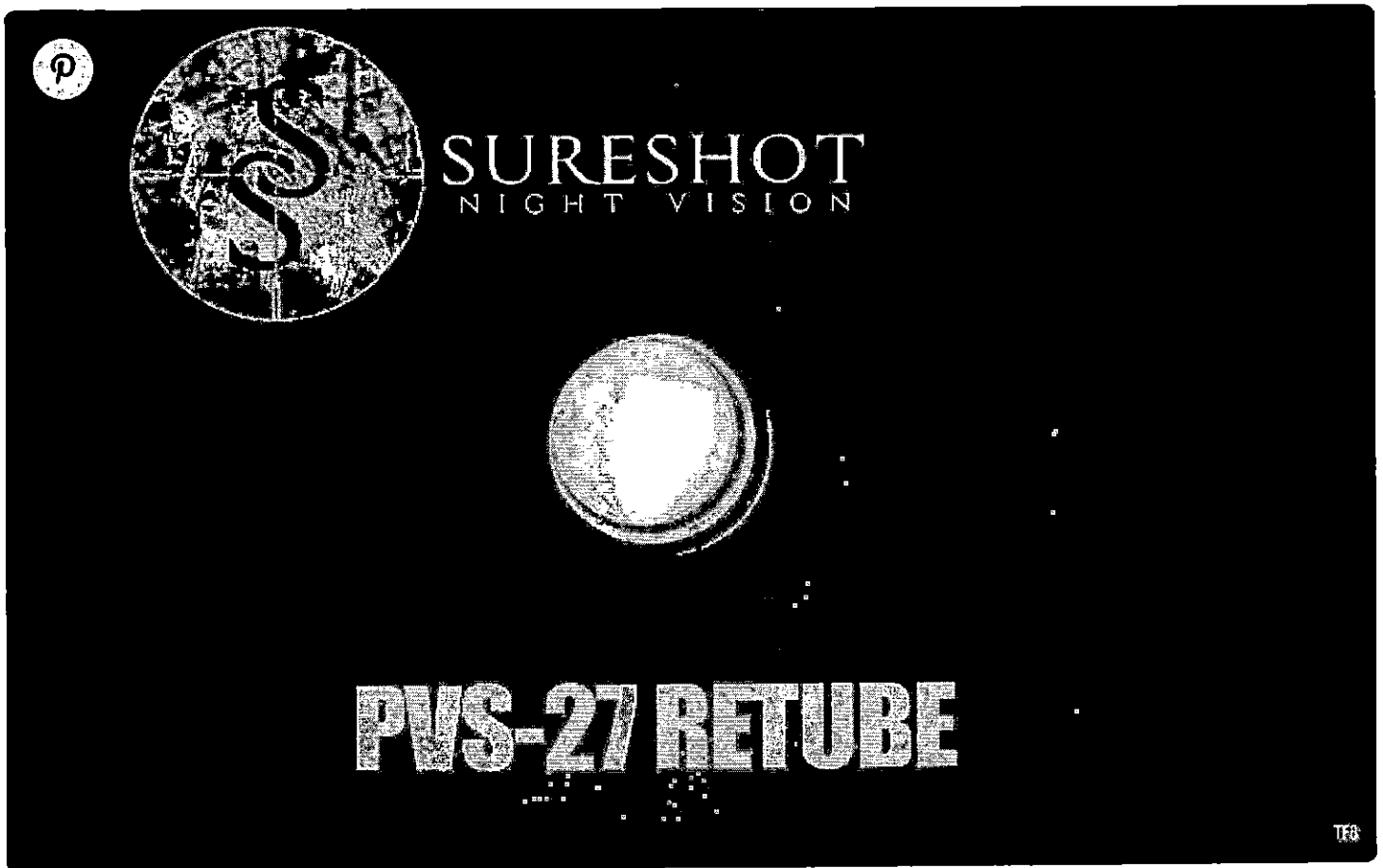


Friday Night Lights: Sure Shot Night Vision's PVS-27 Retube – White Phosphor Clip-On Upgrade



by Nicholas C

Published: July 1st, 2022



Good evening! Perhaps I caught your attention with some nice white phosphor? In today's installment of Friday Night Lights, I will show you something that is uncommon in the night vision world and in the grand scheme of things is relatively affordable – Sure Shot Night Vision's PVS-27 retube. They take clip-on night vision

devices (CNVD) and retube them with better tubes. It sounds easy but nothing could be further from it.

CNVD @ TFB:

- Friday Night Lights: L3 Warrior Systems CNVD-LR (PVS-24LR) ([blog/2022/04/22/friday-night-lights-l3-warrior-systems-cnvd-lr-pvs-24lr/](https://www.thefirearmblog.com/blog/2022/04/22/friday-night-lights-l3-warrior-systems-cnvd-lr-pvs-24lr/))
- Friday Night Lights: NVD KAC UNS@SR Night Vision Clip-On ([blog/2022/02/11/friday-night-lights-nvd-kac-unssr/](https://www.thefirearmblog.com/blog/2022/02/11/friday-night-lights-nvd-kac-unssr/))
- Friday Night Lights: Magnum Universal Night Sight (MUNS) PVS-27 ([blog/2019/11/01/friday-night-lights-magnum-universal-night-sight-muns-pvs-27/](https://www.thefirearmblog.com/blog/2019/11/01/friday-night-lights-magnum-universal-night-sight-muns-pvs-27/))

Clip-On Night Vision Devices

Clip-ons, in the night vision world, typically refer to a night vision device that you mount in front of a day scope. There are a variety of devices that function in this manner but only a handful of them are really worthwhile for long-range shooting in the dark. Most shooters use a PVS-30, PVS-24LR or the behemoth PVS-27. A couple of years ago, a bunch of PVS-27s hit the market and were surplus units from the Marine Corps. I picked up one of them back then and last April, I bought a second PVS-27 from a former FLIR sales rep. I was told this second PVS-27 would need a new tube so the price was really cheap. Perfect. So I sent it to Jay at Sure Shot Night Vision to get a PVS-27 retube.

There is a bit more to this story. If you remember, last April, I wrote about the L3 PVS-24LR aka CNVD-LR ([blog/2022/04/22/friday-night-lights-l3-warrior-systems-cnvd-lr-pvs-24lr/](https://www.thefirearmblog.com/blog/2022/04/22/friday-night-lights-l3-warrior-systems-cnvd-lr-pvs-24lr/)). My friend Marco has a PVS-30 that was retubed by Sure Shot Night Vision. He got Jay to retube it with an L3 unfilmed white phosphor image intensifier with just over 2500 FOM. He used a defunct PVS-30 that he picked up on the cheap and spent just over \$5k for the PVS-30 retube with Jay. That is labor and the image intensifier

tube. When I reviewed the CNVD-LR, we all brought out our CNVDs for a sort of ultimate clip-on comparison.



We had 3x PVS-30s, 2x PVS-24LRs, 2x PVSD-27s and some other night vision.

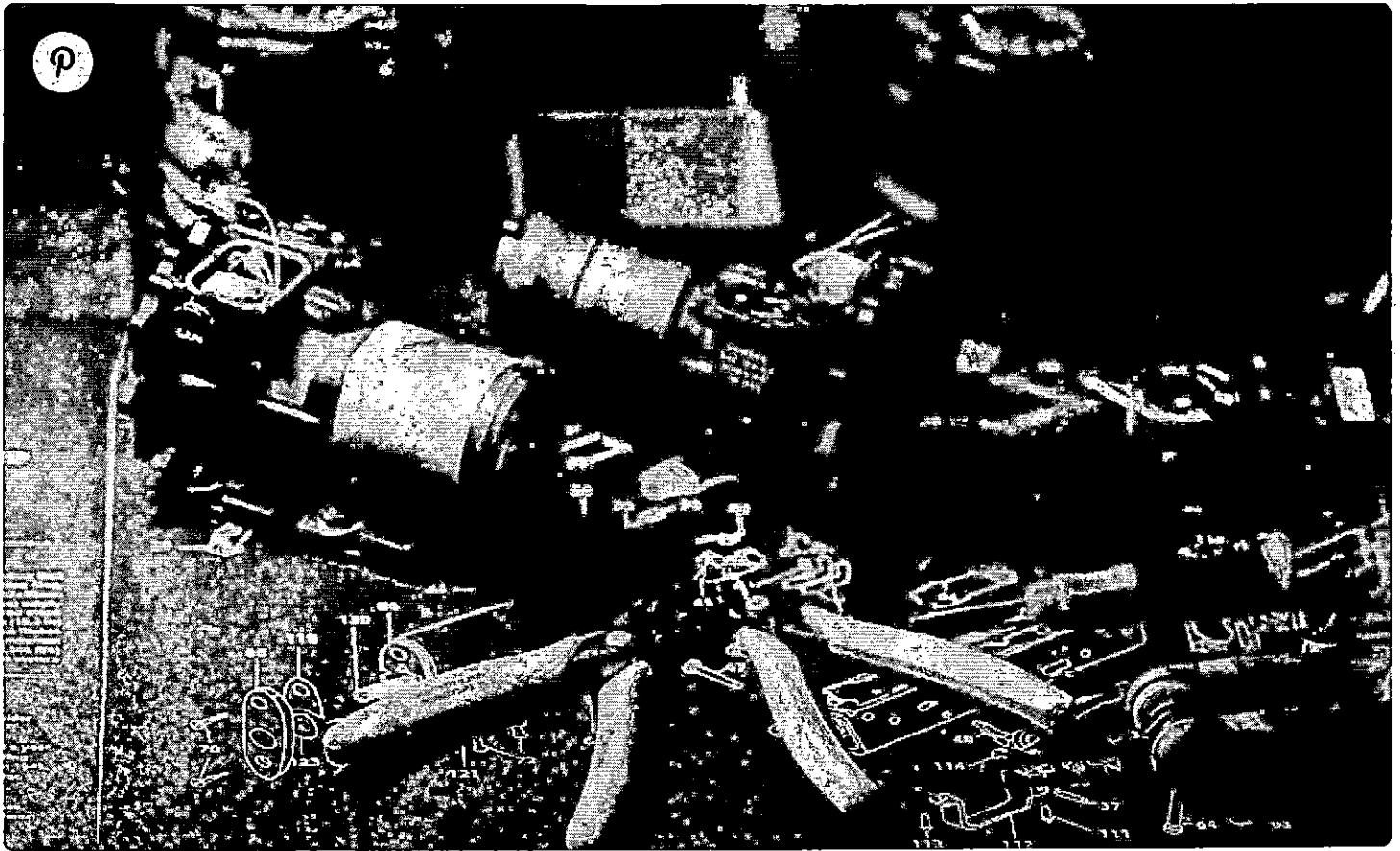
Actually, between me and my friends, we have 4x PVS-27s but we only needed one of them to compare against the rest since at the time we only had green phosphor PVS-27s. My buddy Kevin has a green PVS-27 and a CNVD-LR. When we compared all these clip-ons to each other, the CNVD-LR performed admirably but the PVS-30 retube was a better performer than the CNVD-LR and that is due to the larger objective lens. Sure, some of it has to do with the tube specs but the glass is larger and lets in more light for the PVS-30. I had already at that moment decided to

upgrade my PVS-27 with an Elbit XLSH tube that has over 2400 FOM but more importantly, it has a higher center resolution, 81 lp/mm. Most image intensifiers have 72 lp/mm or less. Center resolution will be better in a clip-on since you are looking at it with a magnified optic.

My buddy Kevin decided to go a slightly different route. He wanted a Photonis PVS-27 retube. Why a Photonis tube? Photonis has a higher high light resolution than L3 or Elbit. What that means is when the tube is exposed to a lot of light, the resolution drops and in the case of L3 and Elbit, they drop significantly. Photonis tubes do not drop as much and show more when there is more light, like in the case of using an IR illuminator. Since we are talking about PVS-27 retube then in most cases you would be using an IR illuminator to help you see far.

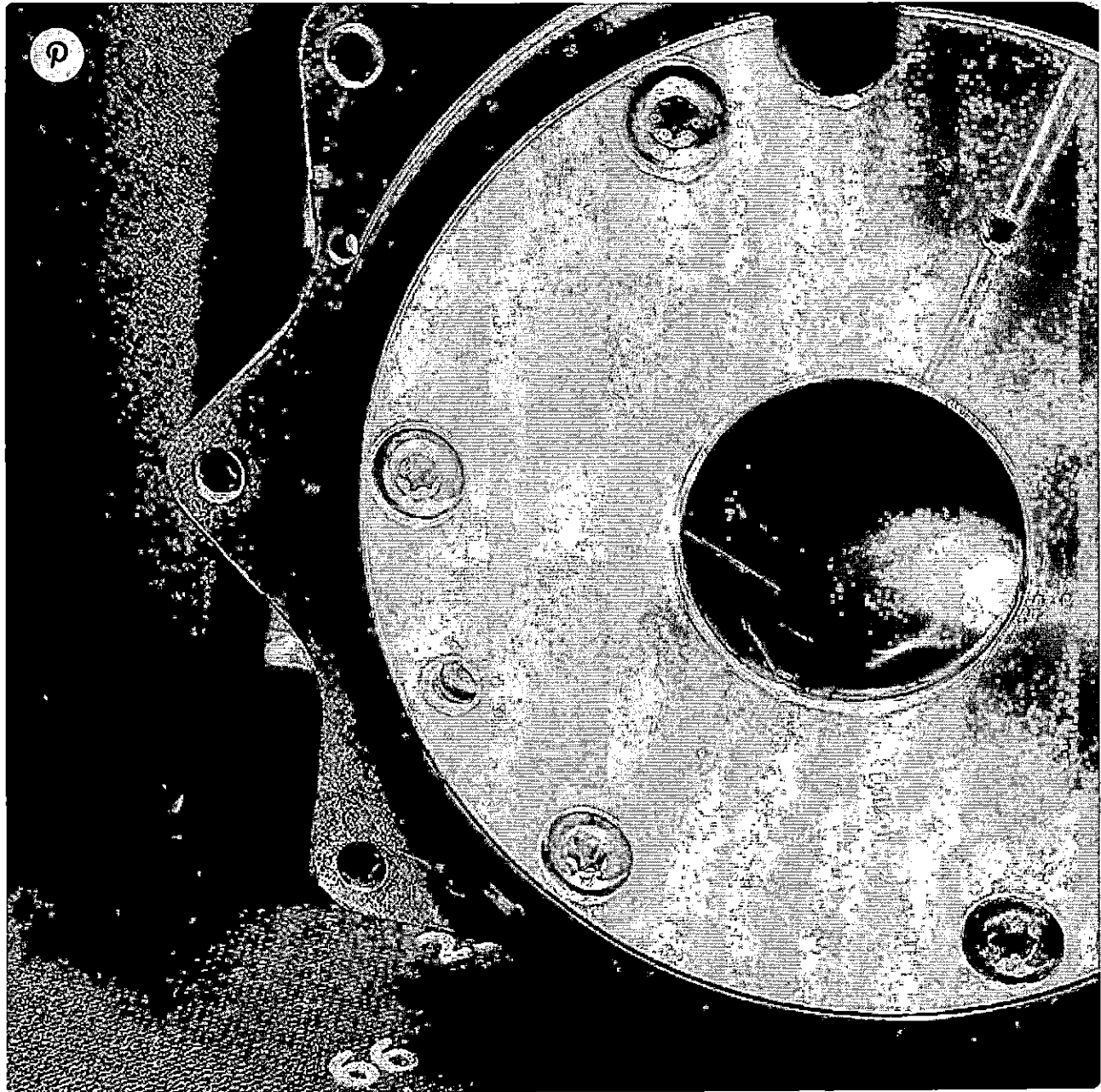
PVS-27 Retube By Sure Shot Night Vision

Changing an image intensifier tube in a clip-on is not easy. Swapping tubes in typical PVS-14 or dual tube goggles is relatively easy. Collimation in binos is one of the critical steps in building a decent goggle. But with a clip-on due to the recoil hardening and collimation, a PVS-27 retube is not for your weekend garage builder. Kevin and I sent in our respective PVS-27s for Jay to perform the tube transplant. The image intensifier is bedded into the housing using some sort of resin. Then there is a proprietary tube holder but it is not for sale as a spare part unless you are a certified repair service that is approved by FLIR. While Jay is not on this list with FLIR, he is the only person that offers the service to upgrade clip-ons.



PVS-27 retube photo by Sure Shot Night Vision

The photo below is of Kevin's PVS-27 retube. The input window of Photonis tubes has a sort of rainbow-looking reflection to them. According to Sure Shot Night Vision, there are only two PVS-27 retubes with Photonis tubes in the US, possibly the world.

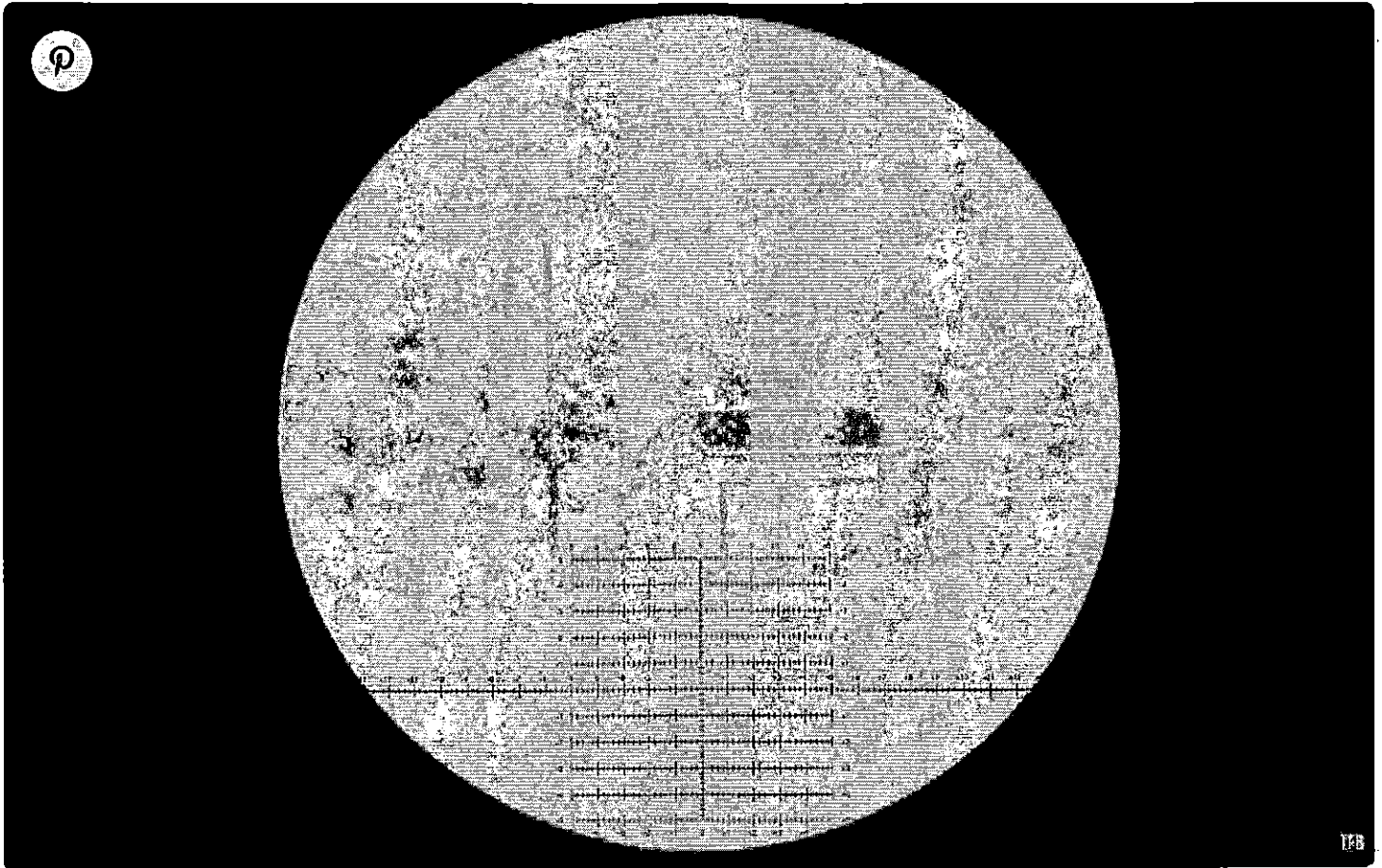


A PVS-27 retube requires a replacement tube holder and since FLIR does not let anyone order those, Jay had to get his custom machined. He also had to build his own collimation device. Normally you collimate a set of binoculars so the two images overlap so you see a single coherent image. With CNVDs, you collimate them as best as possible to minimize POA shift. Collimation is achieved with custom metal shims. Once he gets the collimation done, he sets the tube and shims in place. Then he recoil tests them with a .308 rifle and checks collimation again. If the tube did not shift too badly, then back it goes to the owner. Otherwise, he has to start over again.

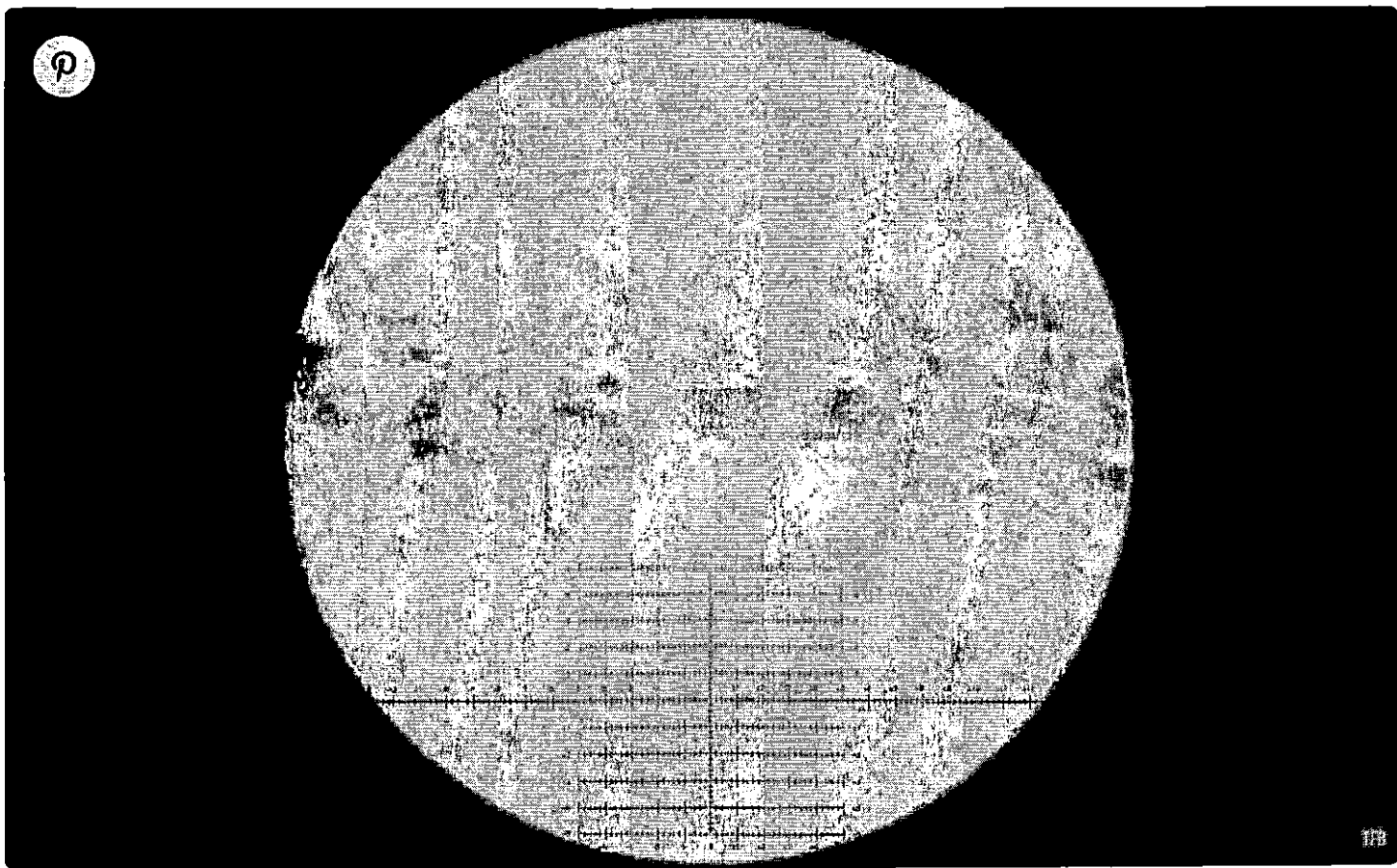
Once he is done, he laser engraves the PVS-27 retube. Each one comes with a lifetime warranty against manufacturer defects. Like if the tube shifts under recoil.



How Does The PVS-27 Retube Look?



It is like upgrading from green phosphor to white phosphor. For the most part, it is a color palette shift. The one thing we do not know is the specs from the green phosphor PVS-27 tubes. Here is a photo looking through my green PVS-27. The shed is 530 yards away.

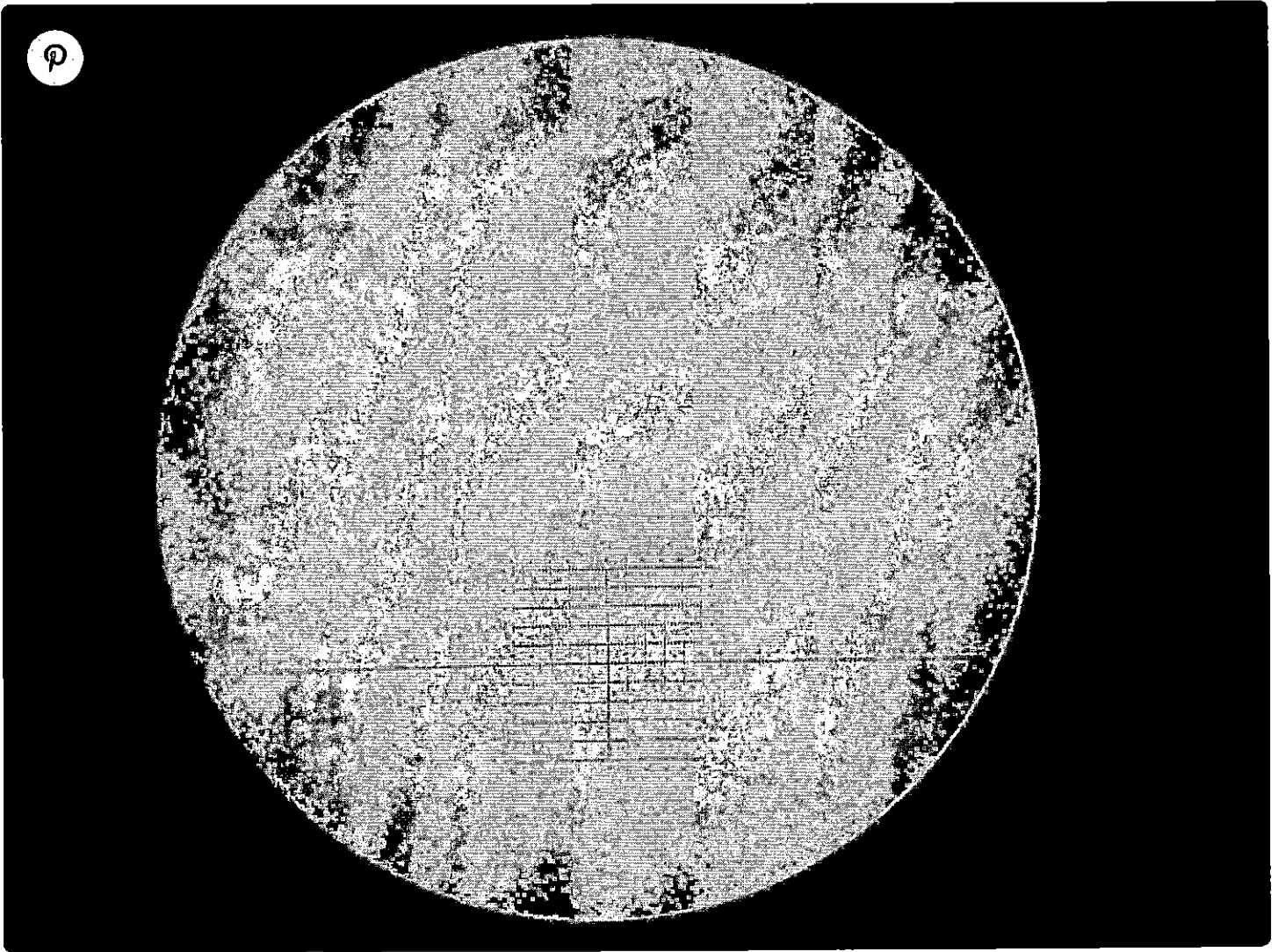


Below is a tree that is 2,000 yards away. The one near the top of the hill just above the reticle in my spotting scope.

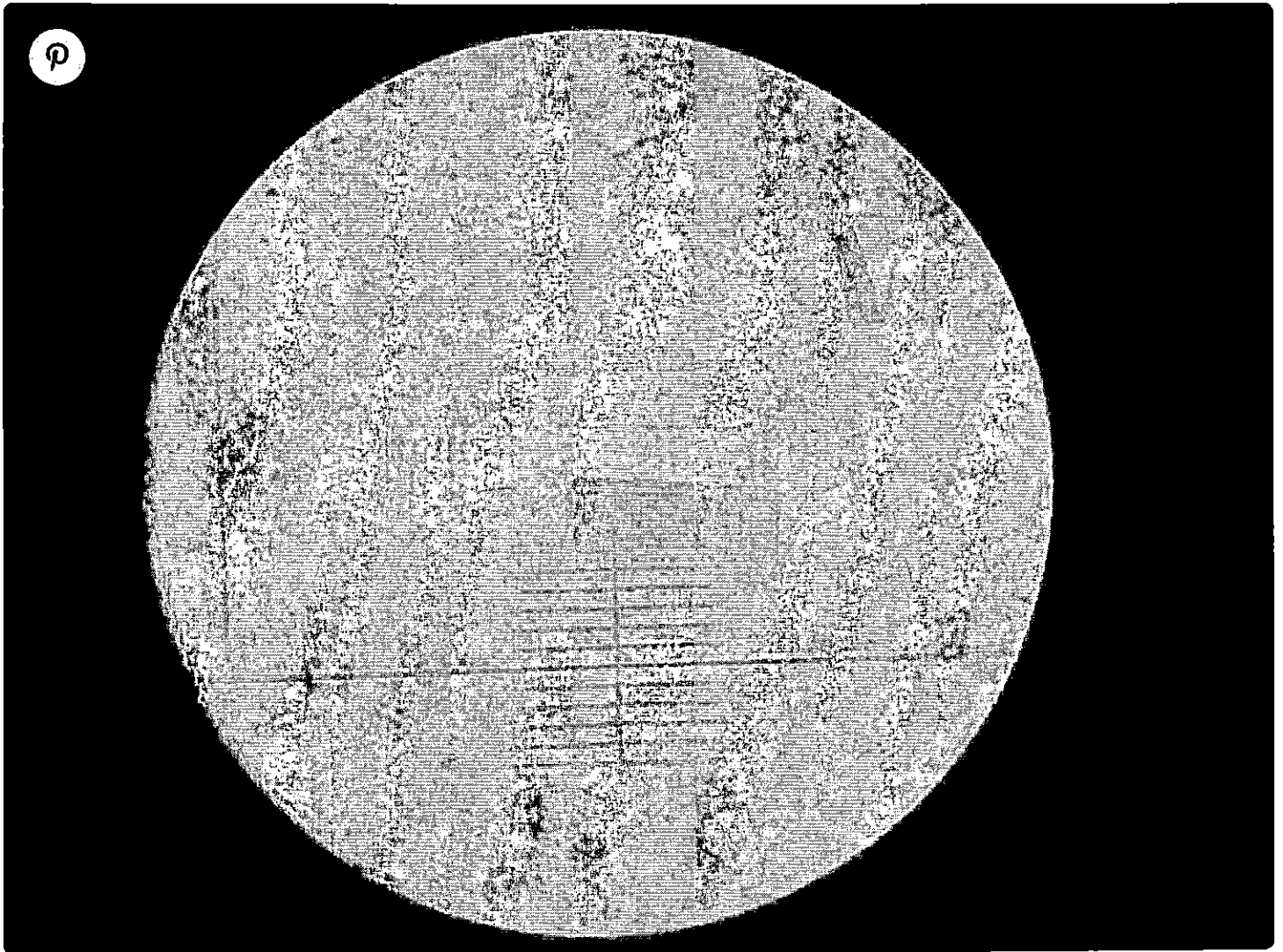


Last weekend we got all the retubed CNVDs (PVS-27s and PVS-30) and compared them side by side. This test was very difficult as there was no moon and very little ambient light save for starlight. We looked at a Conex box that is 476 yards from our position. Since Kevin has a Hensoldt spotting scope and it starts at 15x magnification, we set our two Bushnell LMSS at 15x so we could compare the various Sure Shot Night Vision retubed CNVDs.

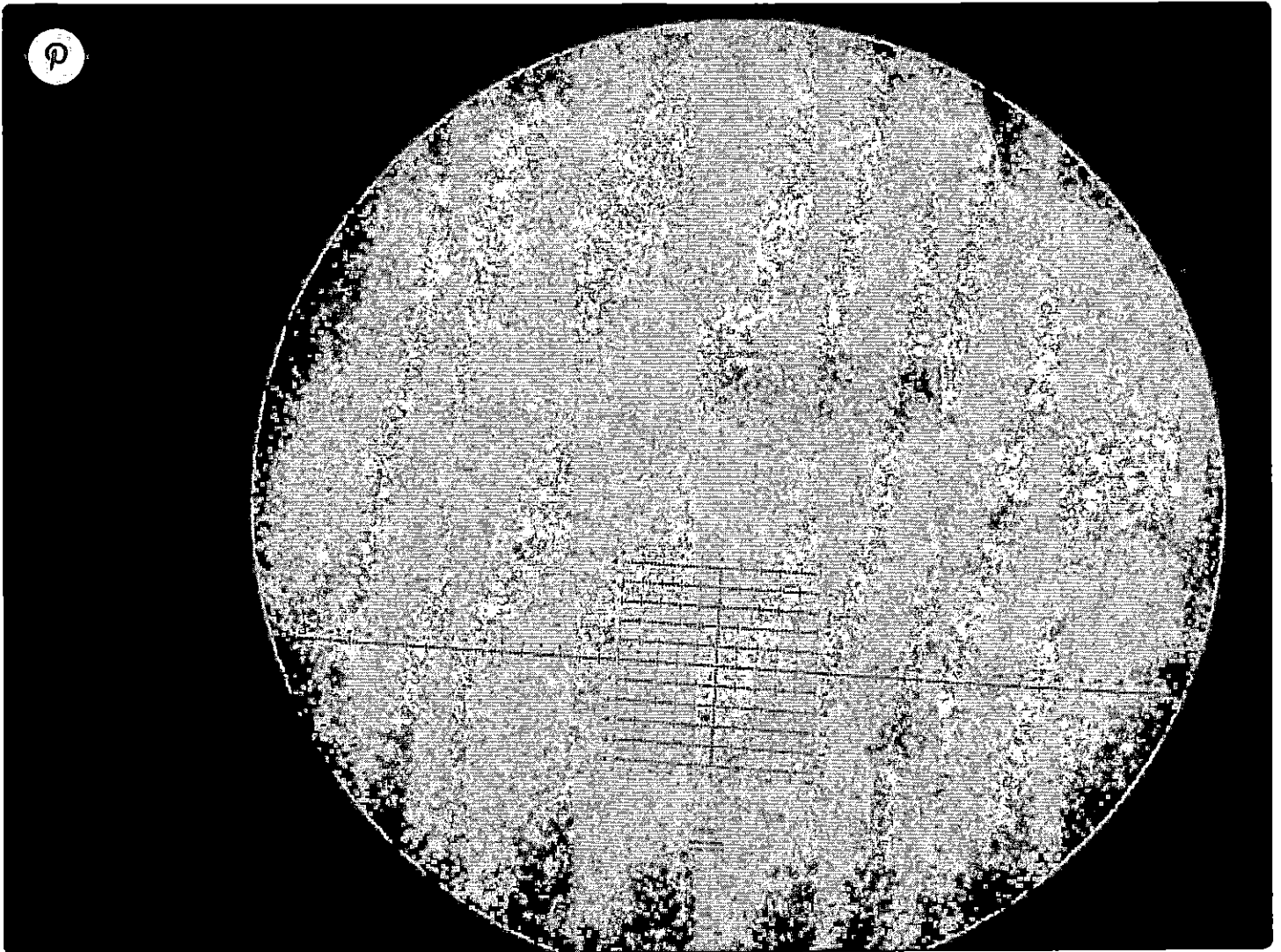
Without illumination, the Photonis PVS-27 retube performed the worst. The L3 WP PVS-30 performed the best and my Elbit PVS-27 did ok. The difference is not really a big gap though and photographing what we saw is difficult.



Elbit XLSH PVS-27 Retube

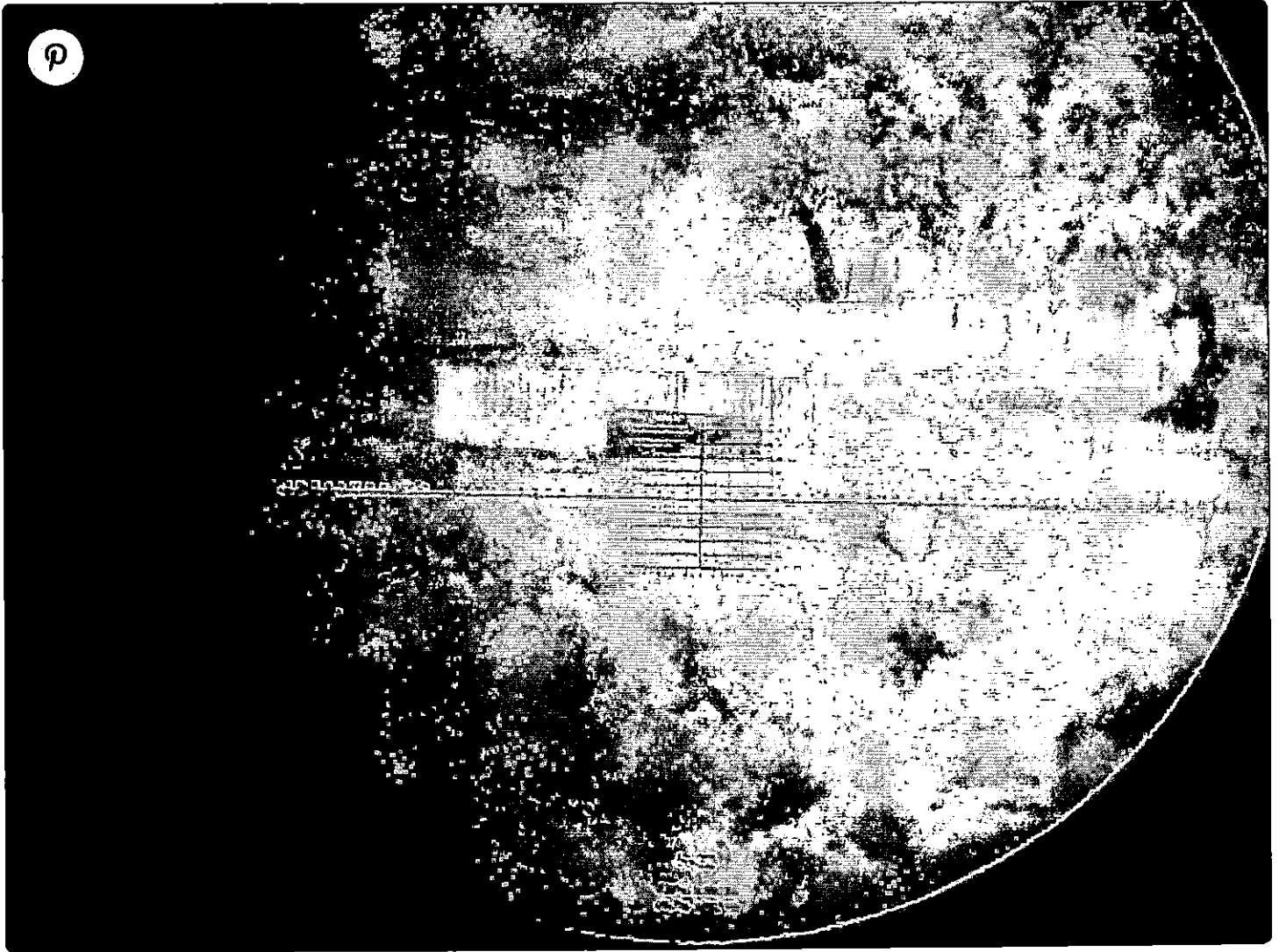


L3 WP PVS-30 Retube

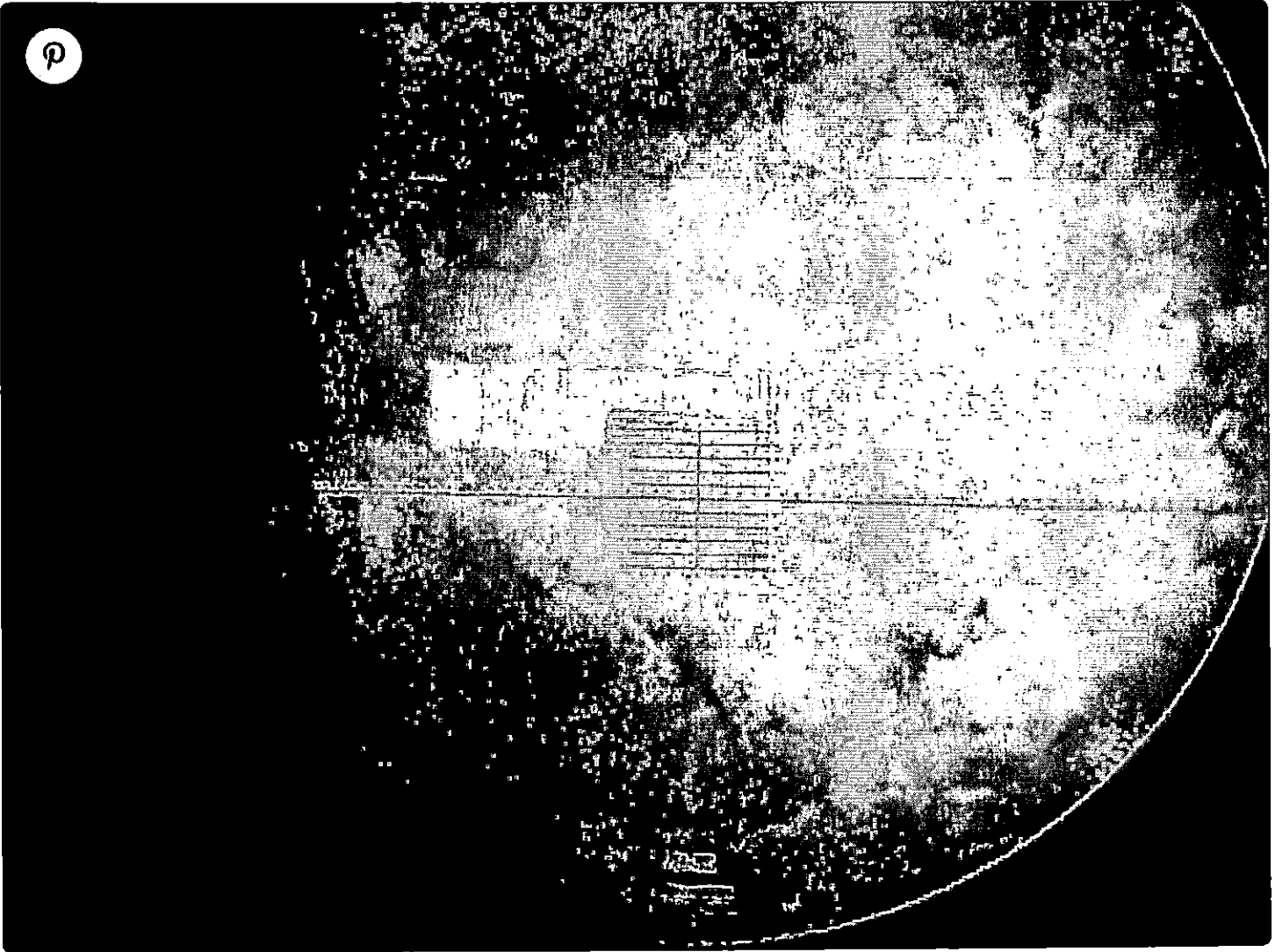


Photonis Echo WP PVS-27 Retube

At lower magnification, gain reduced all the way down and a long exposure, the image looks decent. This is a bit of a cheat though.



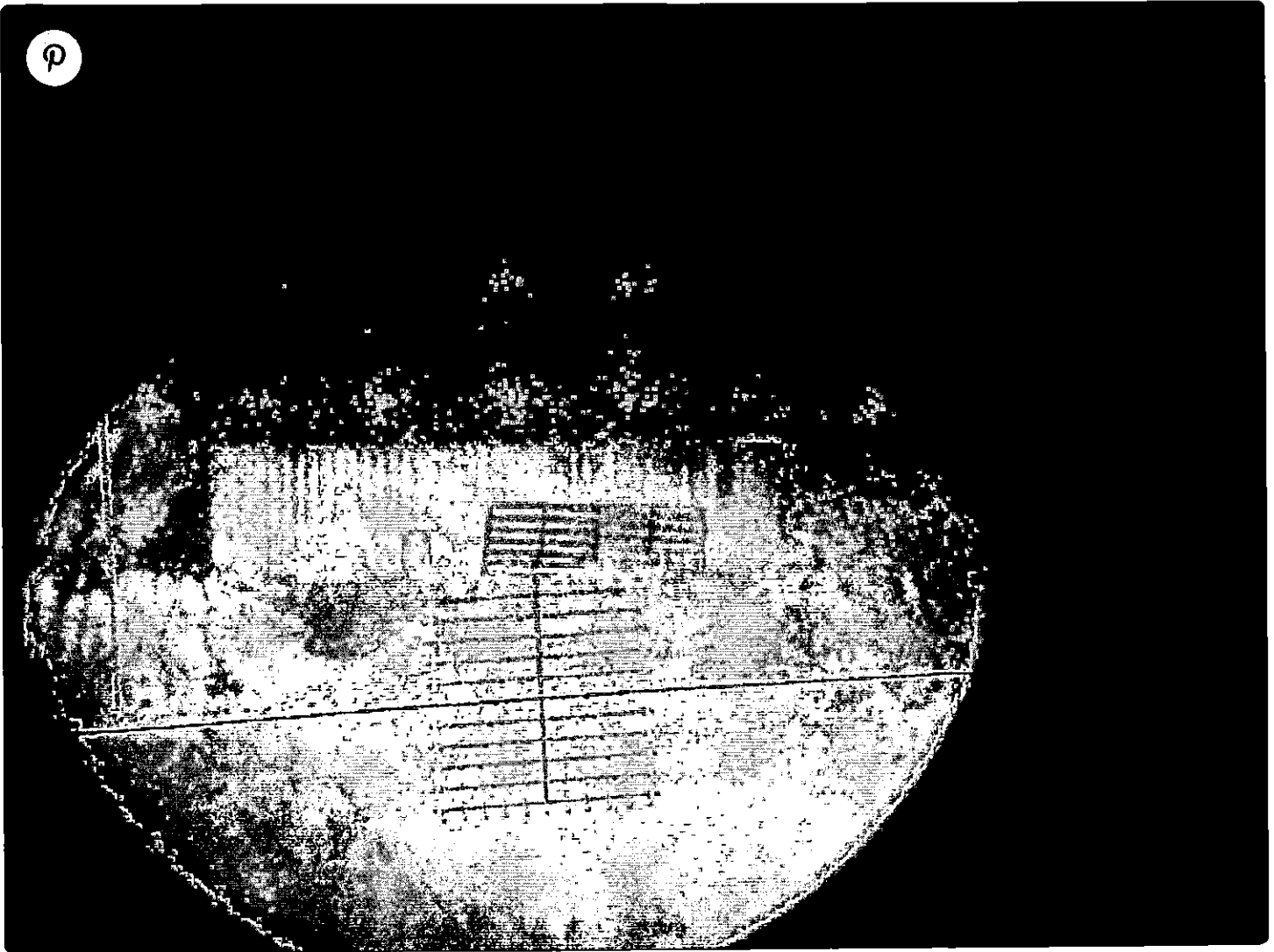
Without illumination



With IR illumination

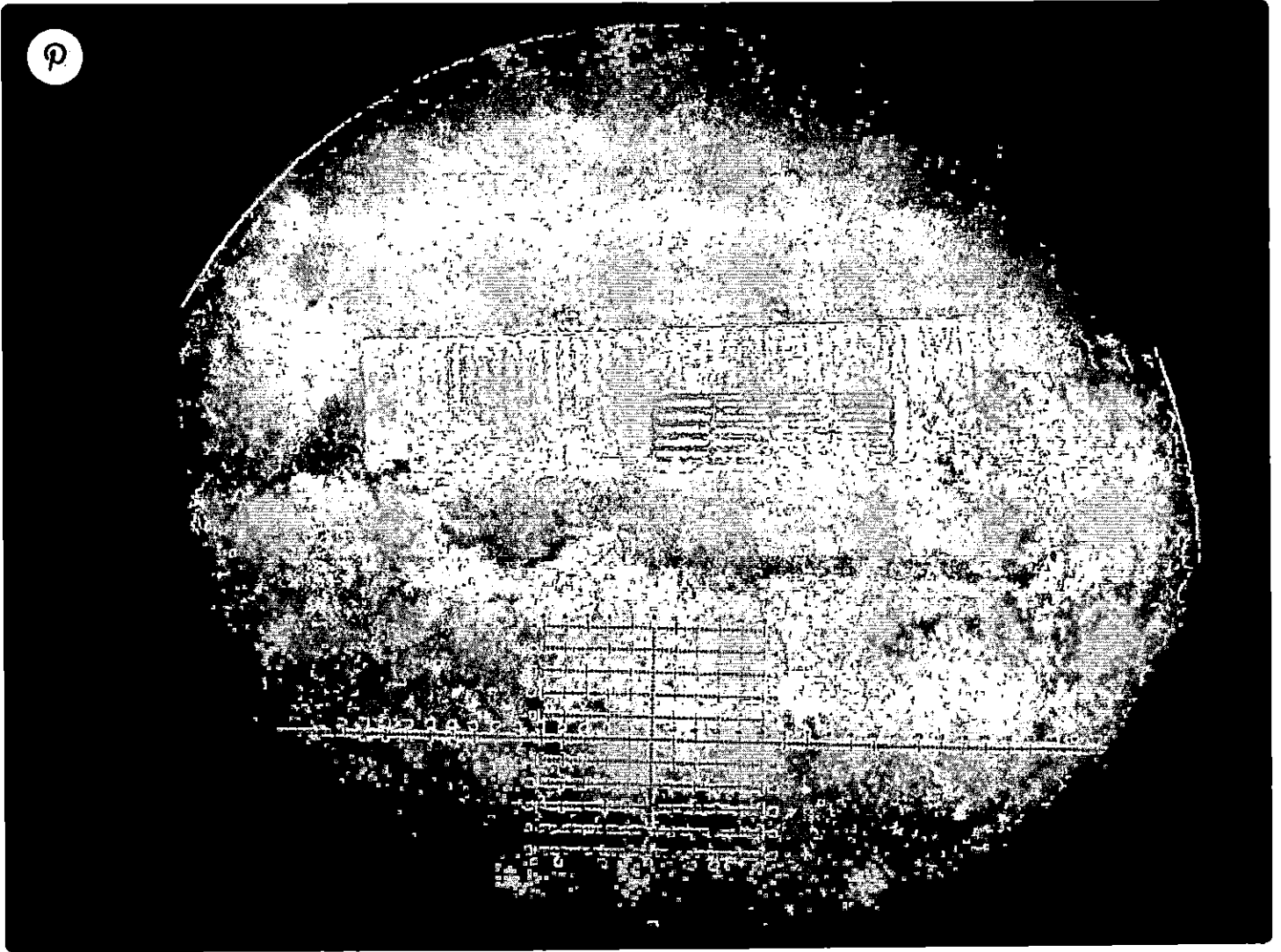
But how do they look side by side looking at the same thing with illumination?

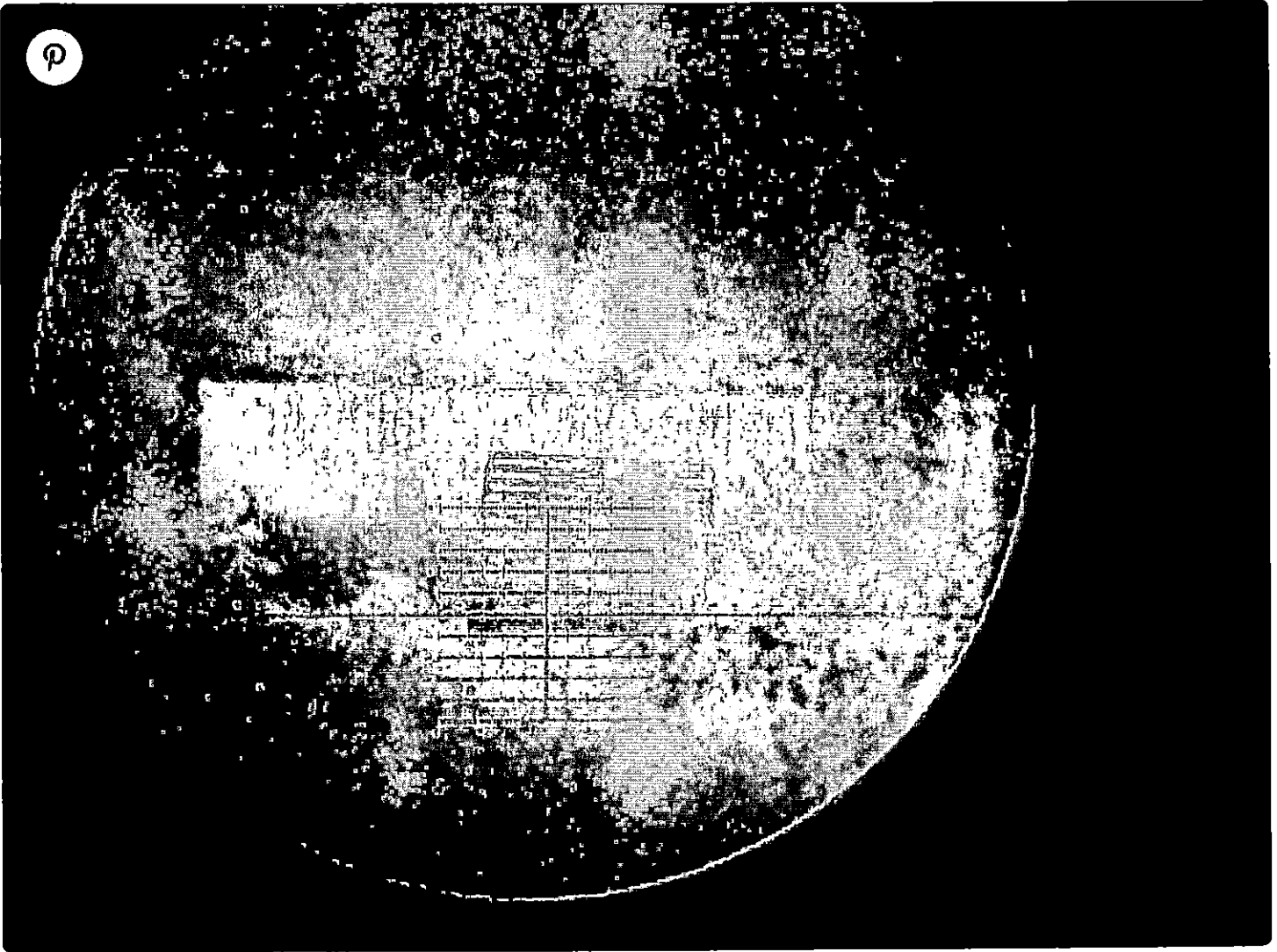
One characteristic of the L3 WP unfilmed tube is that you can see the fixed pattern noise under high-light conditions. See the chicken wire throughout the image below? My Elbit PVS-27 retube and the Photonis PVS-27 retube do not have this issue.



PVS-30 Retube

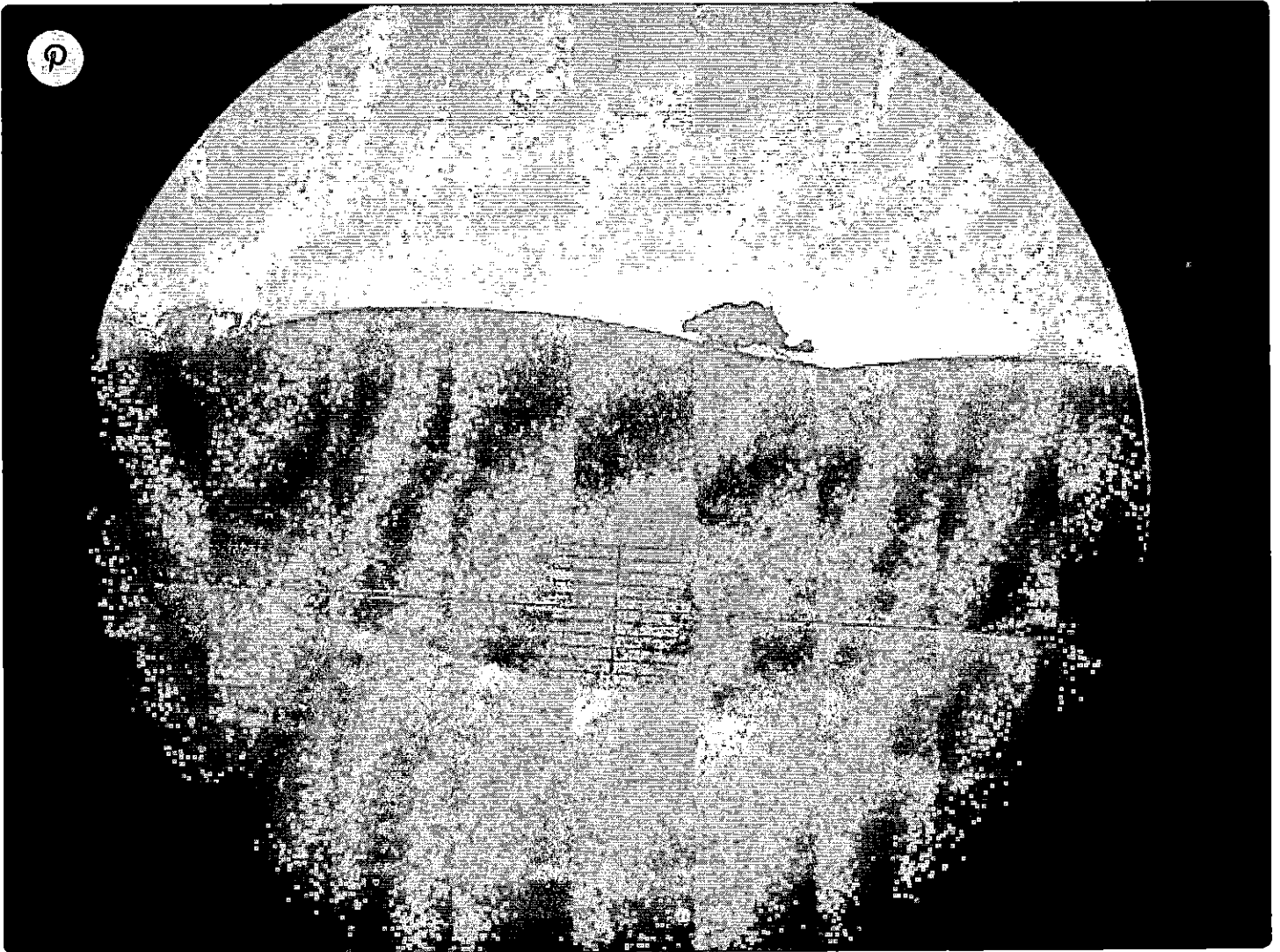
Below is the Photonis PVS-27 retube. This CNVD looked the best. The consensus was it shows a bit more contrast than the other CVNDs.



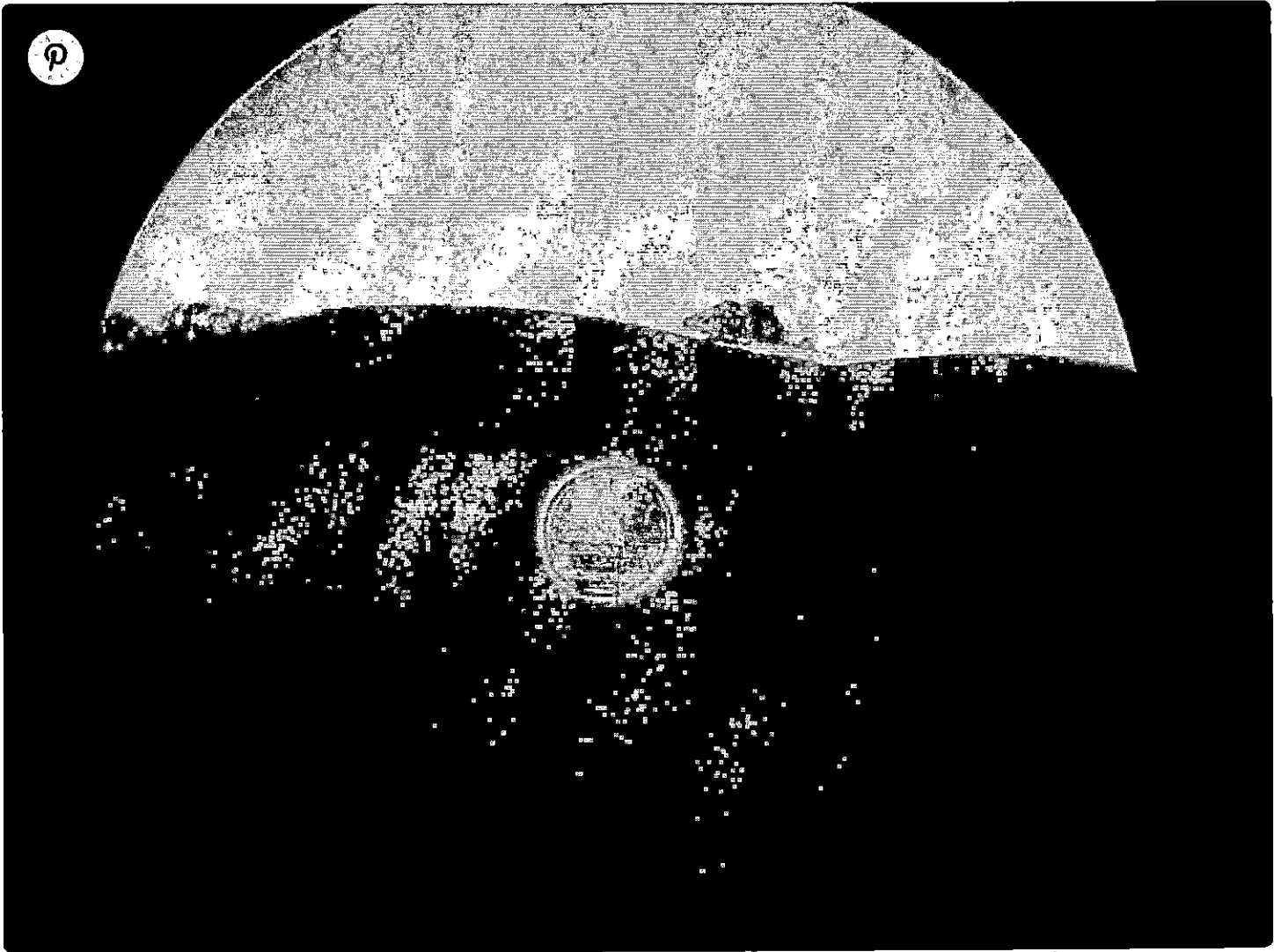


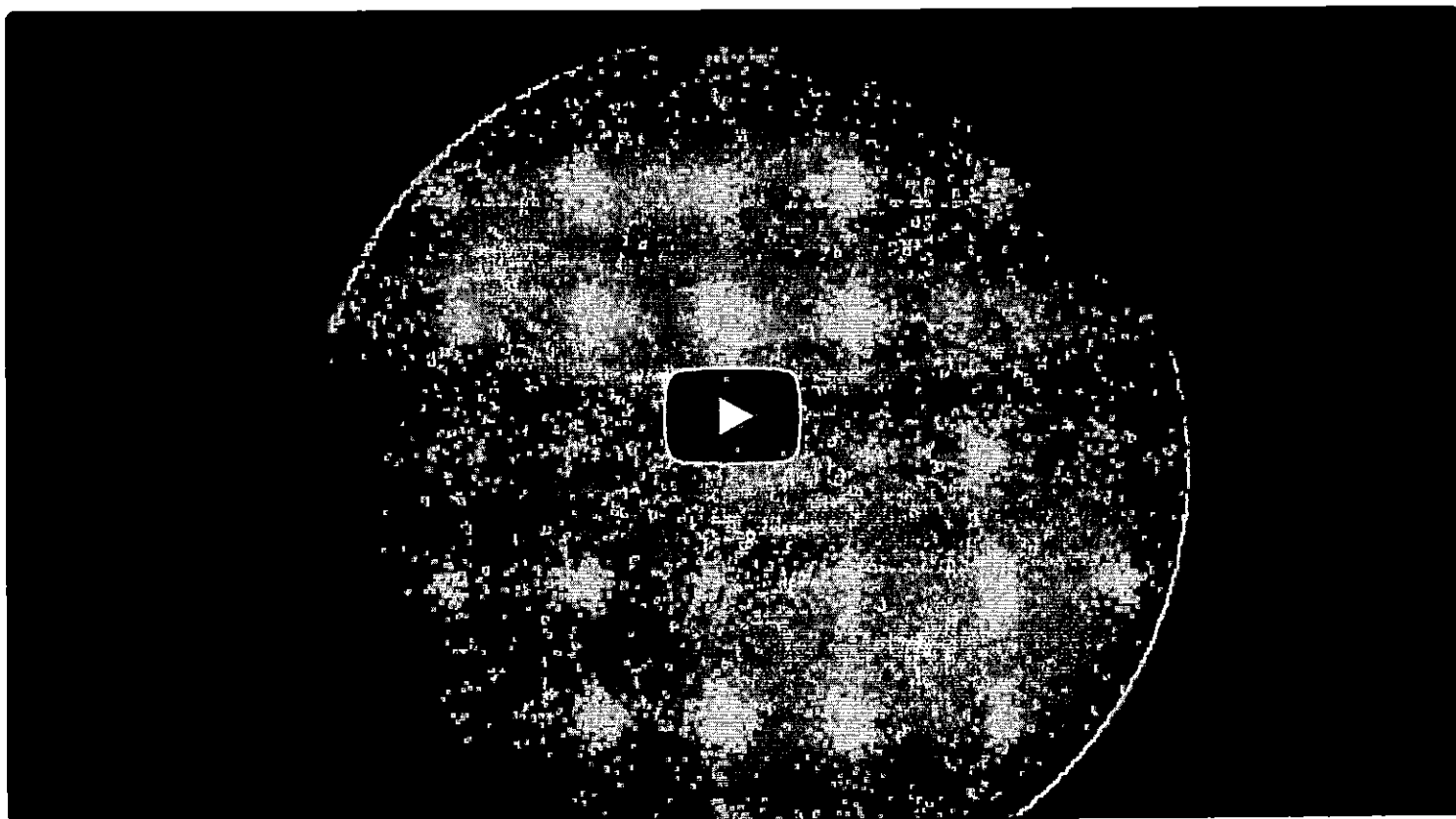
Elbit XLSH WP PVS-27 Retube

A big part of using a CNVD is the lighting situation. There was no moon and the sun was setting behind this hill so there was a considerable amount of light causing the clip-ons to dim down and drop the resolution. See how dark it is below? Can you see the target?



See the white spect just above the reticle in the illuminator below? That is a steel target 1250 yards away that is sub-MOA. It is less than 12.5" wide. In a future Friday Night Lights article, I will discuss what it took to make this shot in the dark.





Should You Get A PVS-27 Retube?

So that is the ultimate question. My friend Kythe was pondering this exact question when we compared these CNVDs together. He has a green PVS-27 and it works great. It comes down to money and priorities. A PVS-27 or a PVS-30 are not cheap. You can get refurbished PVS-30s for around \$4k-\$5k. The PVS-27s are arguably better performers and they fetched similar pricing. Now you need to spend \$2k+ on a white phosphor tube and pay Sure Shot Night Vision to install it. Jay charges \$1,950 for labor. While that may sound expensive, this is a very niche service. You can't contact FLIR or L3 and ask them to retube your clip-ons. And even if they did, I am sure they would charge a whole bunch more. So the labor cost, by Sure Shot Night Vision is not that bad when you consider retail on these CNVDs is close to \$10k depending on which ones you get. If you have a poor performing clip-on, then yes, a retube will make it better. If you already have a great clip-on, then maybe just leave well enough alone. The sad thing is the CNVD-LR was not even turned on because in a previous

test it performed worse than the PVS-30 retube. Both of them having L3 WP tubes inside them. The CNVD-LR does not have as much glass to let light in so it suffers and it costs more than any of the retubed CNVDs. If you can get a PVS-27 or PVS-30 for a great price then sure, give it new life and send it to Jay at Sure Shot Night Vision. Otherwise, use what you got and practice.

#NightVision #L3 #PVS-27 #Elbit #Photonis #SureShot #Retube




Nicholas C

More by [Nicholas C](#)

ADVERTISEMENT

Comments

1 comment

Tonka  on Jul 02, 2022

That is dedication! It's no use to me currently, but I'm glad to have the information as it may be in the the future. I always appreciate knowing a guy that takes a really deep dive in a hobby.

Quote #1
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AN/PVS-27 MUNS ELBIT

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\$9,000.00

Select Color

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Select Color → Please choose product options.

1

DESCRIPTION

REVIEWS 0

A high-resolution clip-on night vision sight designed to enhance any MIL-STD-1913 Picatinny rail-mounted scope. Perfect for snipers, this advanced sight allows for detection and recognition of man-sized targets beyond 800 meters, making it ideal for medium to long-range engagements. Developed for the USMC and adopted by US and NATO forces, the S135 MUNS is compatible with multiple weapons platforms, including .50 caliber. Its fast f/1.0 catadioptric lens ensures best images in any environment.

Device Features

- Magnification: Unity
- Optimum Dayscope Magnification: 3X to 20X
- Focus Range: 10°
- Field of View: 15 m to Infinity
- Mounting: LaRue Adjustable Double Locking Lever Mount
- Weight (w/o batteries): 50oz
- Max Height Above Rail: 3.75in
- Controls: ON/OFF/GAIN/FOCUS
- Power: 2X AA
- Double Locking Levers (MIL-STD 1913, Picatinny Rail)

See The Night Re-Tube PVS-27 Info:

Min 2500 FOM

Min 72 Resolution

Lifetime Collimation Guarantee

- If at any point a device is not retaining collimation, free of charge, send the device back to be corrected.

Lifetime Functionality Guarantee (excluding any damage or functionality failures from recoil)

Base Price \$10,000.00 + UNIT SPECIFIC FOM



HELMETS

Ops-Core FAST Bump Helmet



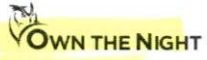
HELMETS

Team Wendy EXFIL Ballistic SL Helmet

HELMETS

Team

FREE SHIPPING ON ORDERS OVER \$500



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\$17,950.00

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The MilSight™ S135 MUNS™ is a high-resolution clip-on night vision weapon sight that mounts on any MIL-STD-1913 Picatinny rail interface forward of an existing scope, adding night vision capabilities to daytime target acquisition platforms. The sight allows snipers to detect and recognize man-size targets in excess of 800 meters. Developed for the USMC and adopted by US and NATO forces, S135 MUNS is compatible with multiple weapons platforms up to and including .50 caliber.

Designed for medium and long-range engagements, S135 MUNS can image IR pointers to allow target pointing and handoff with teammates for rapid, coordinated engagement. Configurable with white and green phosphor tubes for high-performance US and exportable versions. White phosphor provides a natural looking scene while high-resolution 72 lp/mm in either green or white phosphor produces sharper scene details for longer-range target engagements.

Includes

- Soft Case
- Operator's Manual
- Batteries
- Lens Cleaning Kit
- Flip Up Lens Cap
- LaRue (Picatinny) Rail Mount

Features

Multi-Use Design

- The MilSight S135 MUNS provides mission flexibility as a high-resolution night vision weapon sight or handheld as an observation device.

Compatible with Standard Sight

- Mountable on any MIL-STD-1913 rail interface of an existing scope, it's effective on weapons from carbines to .50 caliber sniper rifles.

Shock Mitigation Maintains Boresight

- The proprietary FLIR Shock Mitigation System™ (SMS™) absorbs and dissipates high shock loads while extending tube life and maintaining zero.

Small, Light, and Simple

- Highly portable design reduces operator fatigue and large, rugged controls for basic image adjustments means no complex menus to navigate.

Specifications

| | |
|----------------------------|--------------------|
| Dimensions | 8.7" L |
| Weight (without batteries) | 50 oz. |
| Max Height Above Rail | 3.75" |
| Tube Type | Gen III, Autogated |

| | |
|----------------------------------|------------------------------------|
| Tube Color | Green or White Phosphor |
| Available FOM | 2000, 2200, >2200 |
| Resolution | 72 line pair/ mm |
| Field of View | 10° |
| Magnification | Unity |
| Optimum Dayscope Magnification | 15m to Infinity |
| Accuracy | Factory Aligned to 1 MOA or Better |
| Controls | On/Off/Gain, Focus |
| Power Source | 2 AA |
| Operating Temperature | -32° to +55° C |
| Objective Lens Focal Length | 92 mm |
| Objective Lens f/Number | f/1.0 |
| Output Optic Exit Pupil Diameter | 40 mm |

 [DOWNLOADS](#)

RELATED PRODUCTS



[L3Harris M2124 \(AN/PVS-24/24A\) Clip-On Night Vision Device](#)

\$11,500.00



[EOTECH ClipNV Weapon Sight, Med Range, 1-12X](#)

\$10,399.00



[Knight Vision MIL Spec AN/PVS-30 Clip-Weapon Sight](#)

\$14,750.00

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