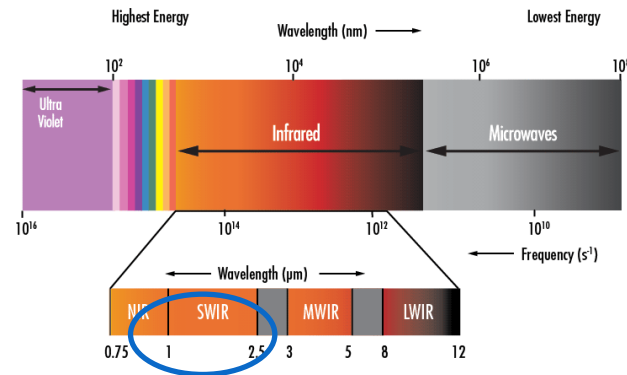


Development of innovative **SWIR InGaAs Sensors** and Cameras

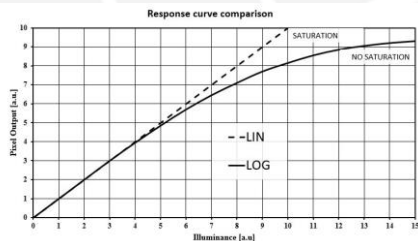
- 100% internal know-how
- Read-out design, PDA design, in-house hybridization
- Electronics, FPGA, and SW know-how for camera



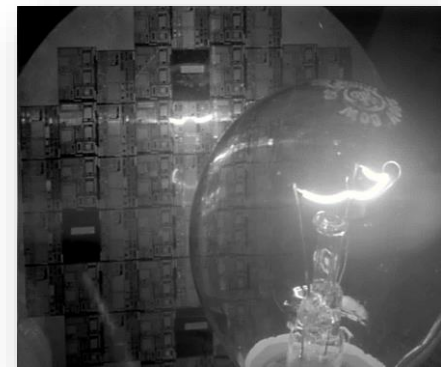
## 3D Metal printing

**WHY SWIR** – SWIR can provide thermal information for temperatures  $> 300^\circ$  for process control of metal fusion and temperature cooling monitoring, with a clear reflective image for instant comprehension. The cooling curve enables to enact the quality of the fusion.

**WHY NIT SENSOR** – Unique patented HDR pixel



With its proprietary logarithmic pixel design, NIT sensors have a unique 120dB dynamic range with a single exposure time thus offering a wide temperature range from  $300^\circ\text{C}$  to  $>1500^\circ\text{C}$  in a single capture

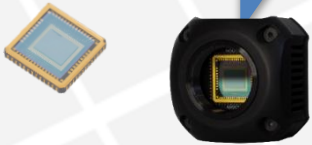


# ● ○ PRODUCTS – DEDICATED SOLUTION

1<sup>st</sup> generation HDR  
QVGA & VGA format

25 $\mu$ m

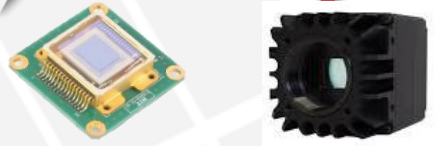
2016



2<sup>nd</sup> generation HDR + high  
sensitivity VGA format

15 $\mu$ m

2018



1<sup>st</sup> NIT Linear Array

7,5 $\mu$ m

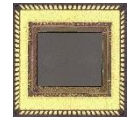
2020



3<sup>rd</sup> generation Mpix  
SXGA format

10 $\mu$ m

2021



► Innovation contest organized by BPI

NIT granted funds to develop a dedicated **cost effective** sensor + camera for **3D printing**

First dedicated cameras available summer 2021



## ● ○ PARTNERS

NIT is working with research institutes to provide complete solution in mastering 3D metal printing process monitoring





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Grazie

شكرا

спасибо

Dank u

Danke

σας ευχαριστώ

Merci

धन्यवाद

ありがとう

谢谢

Terima kasih

Thank you

감사합니다

Teşekkür ederiz

Dziękuję

Gracias



NewImagingTechnoNIT

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