

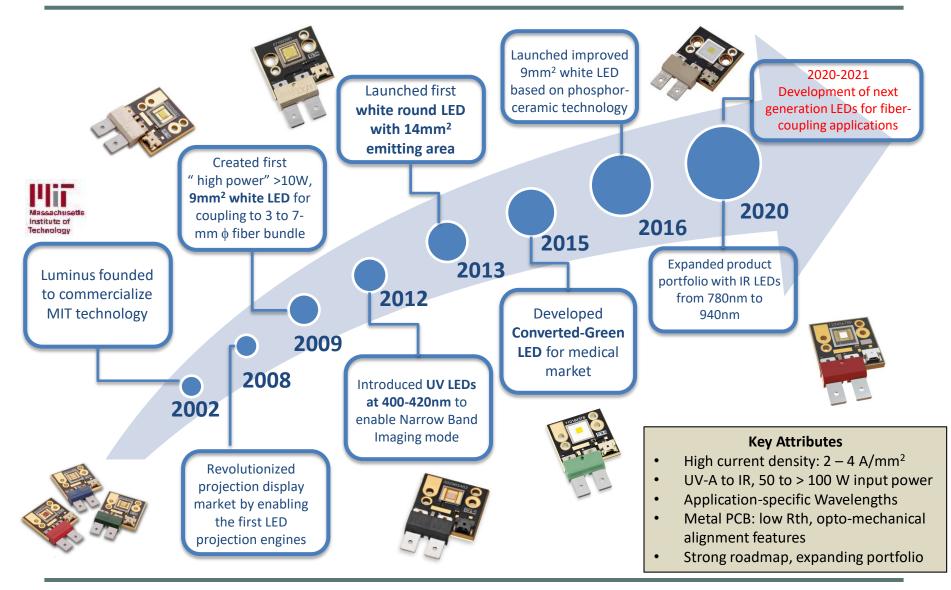
Luminus LEDs for Endoscopy Market

EPIC Online Technology Meeting on Endoscopy



Yves Bertic – LUMINUS – EPIC Online Technology Meeting On Endoscopy

Luminus Milestones in LED Endoscopy





Endoscopy & Microscopy: full spectrum CBT-90 family



UV 405nm & 415nm

- Optimized for Medical
- > 20W



Specialty White

Standard CRI: > 5,000 lm

Xenon lamp replacement

- High CRI > 3,500 Im
- Exceeds 200- 300W Xenon



Red – Green – Blue & Converted Green

- Green: > 3,000 lm
- Converted Green > 11W
- Red: > 6 W
- Blue: > 15 W



IR & Near IR

- 780, 850 and 940 nm
- 7 15W output
- ICG Application

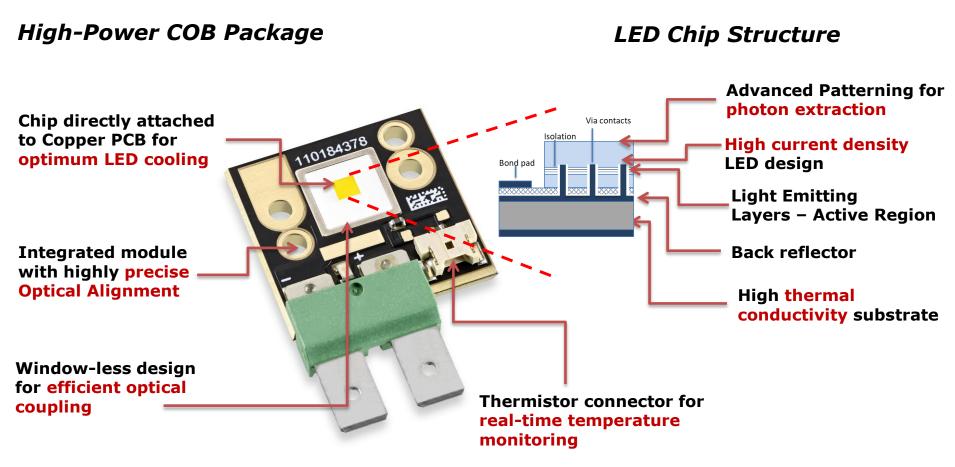
IR Laser replacement

- Unified 9 mm² platform simplifies optical design and color combination (more than 10)
- Full digital control with large dynamic range (less than 1A to 36A CW to PWM)
- Narrowband sources improve efficiency/performance versus subtractive filtering of lamps
- Simplifies manufacturing by managing critical thermal interface and optical alignment issues
- Broad range of applications: Medical, Industrial, Instrumentation...





High power LEDs: design overview



From Chip to Package: Optimization of every aspect of the design for highperformance and reliable operation at up to 3 A/mm² CW and 5 A/mm² PWM





Thank you!

For more information you can contact us via:

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